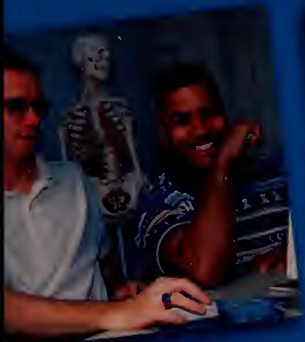


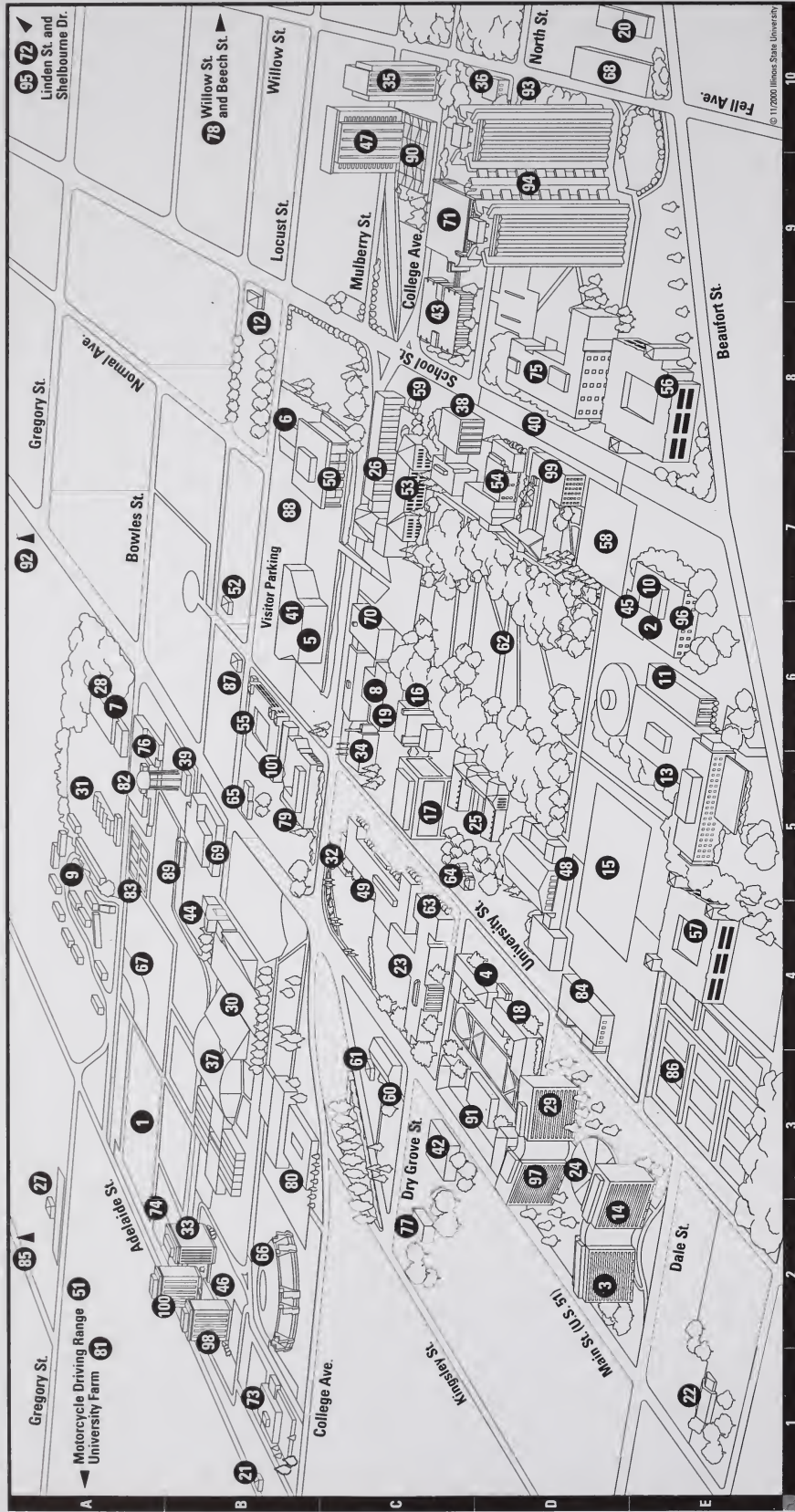
# Graduate Catalog

2001-2002



ILLINOIS STATE  
UNIVERSITY





- 1 Adelaide Soccer Field - A3
- 2 Allen Theatre - E6
- 3 Atkin Hall - D2
- 4 Barton Hall - D4
- 5 Bone Student Center/Breiden Auditorium - B6
- 6 Bowling & Billiards Center (BBC) - B8
- 7 Campus Dining Services - A6
- 8 Campus Auditorium - C6
- 9 Cardinal Court - A5
- 10 Centennial East (CE) - E7
- 11 Centennial West (CW) - E6
- 12 Center for Intercultural Relations - B8
- 13 Center for the Visual Arts and University Art Galleries (CVA) - E5
- 14 Coby Hall - D2
- 15 College of Business Building (under construction) - D7
- 16 Cook Hall (CH) - C6
- 17 DeGarmo Hall (DEG) - C5
- 18 Dunn Hall - D4
- 19 Edwards Hall (EDW) - C6
- 20 Extended University - D10
- 21 Evenden School Museum - B1
- 22 Facilities Planning Building - E1
- 23 Fairchild Hall (FH) - C4
- 24 Feany Dining Center - D3
- 25 Fall Hall (FE) - C5
- 26 Fairley Hall of Science (FHS) - C8
- 27 Golf Course, Illinois State University (GC) - A3
- 28 Green Food Service Building, John - A6
- 29 Hamilton Hall - D3
- 30 Hancock Stadium - B4
- 31 Hens Physical Plant, Carter - A5
- 32 Hens Alumnum - C5
- 33 Hayne Hall - B2
- 34 Heating Plant - C5
- 35 Hewitt Hall - C10
- 36 Honors Program - D10
- 37 Horton Field House (HTW) - B3
- 38 Hovey Hall (Administration) - C8
- 39 Hudsons School - B5
- 40 In Exchange (under construction) - D8
- 41 InfoCentre - B6
- 42 Instructional Technology & Development Center - C3
- 43 Julian Hall (UH) - C8
- 44 Kaiman Football Building - B4
- 45 Kemp Recital Hall - E6
- 46 Linkins Dining Center - B2
- 47 Manchester Hall - C10
- 48 McCormick Hall (MCH) - D5
- 49 Meical School, Thomas (MLS) - C5
- 50 Miner Library (MLB) - C7
- 51 Motorcycle Driving Range - A2
- 52 Motorcycle Safety Program Office - B7
- 53 Old Union Building (OU) - D7
- 54 Parking Garage, North University Street - B6
- 55 Parking Garage, School Street - E8
- 56 Parking Garage, South University Street - E4
- 57 Performing Arts Center (under construction) - C8
- 58 Planetarium - C8
- 59 Professional Development - C3
- 60 Professional Development Annex - C3
- 61 Quad - D6
- 62 Rachel Cooper (RC) - C4
- 63 Rambo House - C5
- 64 Recreation Services Building - B5
- 65 Reebord Arena (REA) - B2
- 66 Reebord Baseball Field - A4
- 67 Research Services Building - D10
- 68 Ropp Agriculture Building (RAB) - B5
- 69 Schroeder Hall (SH) - C6
- 70 Science Laboratory Building (SLB) - C9
- 71 Shekone Apartments - A10
- 72 Shekone Center (VT) - B5
- 73 Vrooman Dining Center - C9
- 74 Scribal Field - B2
- 75 Stevenson Hall, Attila E. (STV) - D8
- 76 Student Auditorium - A6
- 77 Student Accounts Building - C2
- 78 Student Recreation Building (Willow and Belet Streets) - B10
- 79 Student Services Building - B5
- 80 Turner Hall (TUR) - B3
- 81 University Farm - A1
- 82 University High School (UH) - A5
- 83 University High School Tennis Courts - A5
- 84 University Housing Services - D4
- 85 University (President's) Residence - A2
- 86 University Street Tennis Courts - E3
- 87 Varsity Building - B6
- 88 Visitor Parking - B7
- 89 Viro Center (VT) - B5
- 90 Vrooman Dining Center - C9
- 91 Walker Hall (WAL) - C3
- 92 Walker Parking Services Building, Bill - A7
- 93 Wellensons Dining Center - D10
- 94 Wellensons Towers - A10
- 95 Wellness House - A6
- 96 Westford Towers - E6
- 97 Whitner Hall - D3
- 98 Wilkins Hall - B3
- 99 Wright Hall (WH) - D7
- 100 211 North University Street - B5
- 101 211 North University Street - B5

# Illinois State University Graduate Catalog

## 2001-02

Effective May 21, 2001

Visit our Illinois State University Web site at [www.IllinoisState.edu](http://www.IllinoisState.edu).

### Campus Contacts

Disability Concerns	.....ableisu@ilstu.edu	.....www.ilstu.edu/depts/disabilityconcerns	.....309-438-5853
Financial Aid	.....askfao@ilstu.edu	.....www.fao.ilstu.edu	.....309-438-2231
Graduate Admissions	.....gradadm@ilstu.edu	.....www.ilstu.edu/depts/admissions	.....309-438-2196 800-366-2478
Graduate School	.....gradinfo@ilstu.edu	.....www.grad.ilstu.edu	.....309-438-2587
International Admissions	.....intadm@ilstu.edu	.....www.ilstu.edu/depts/admissions	.....309-438-2196
University Housing Services	.....	.....www.orl.ilstu.edu	.....309-438-8611
University Operator	.....	.....	.....309-438-2111
Veterans Affairs	.....	.....www.arr.ilstu.edu/Registrar	.....309-438-2207

To request: *Graduate Catalog\**, *Admittance Application\**, *Class Registration Directory\**,  
*status of Admission Application, campus visit, or general information* .....800-366-2478

*\*These items also available on-line.*

The general policies, regulations, calendar, fees, and courses contained in this catalog are subject to change without notice at the discretion of Illinois State University.

*Illinois State University is committed to providing equal opportunity and an educational and work environment for its students, faculty, and staff free from any discrimination based on race, color, religion, sex, national origin, sexual orientation,\* ancestry, age, marital status, physical or mental disability, unfavorable discharge from military, or status as a disabled veteran or veteran of the Vietnam Era.*

*Further, Illinois State University is committed to a comprehensive program of Affirmative Action to insure access, equity and fairness in educational programs, related activities and employment for minorities, women, individuals with disabilities, disabled veterans and veterans of the Vietnam Era. Copies of the Affirmative Action Plan are available for inspection during regular business hours in the following offices: Academic Personnel, Diversity and Affirmative Action, Human Resources, and Milner Library. Additionally, the Plan can be inspected on the following Web site: [www.diversity.ilstu.edu](http://www.diversity.ilstu.edu).*

*The Office for Diversity and Affirmative Action is responsible for administering and monitoring Illinois State University's Affirmative Action Plan, Plan for Diversity and the equal opportunity/affirmative action policies and procedures. Inquiries about or complaints alleging violation of the University's equal opportunity/affirmative action policies should be directed to the Office for Diversity and Affirmative Action. The Coordinators for Title IX and the ADA/504 may be reached at the same office.*

\* The expansion of Illinois State University's policy is within the scope of the law except for sexual orientation. The elimination of this form of invidious discrimination is based solely upon University policy and is to be resolved within existing University procedures.

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# University Calendar, 2001-2002

## 2001 Summer Session

- May 21-Aug. 10 Summer Term.
- May 28 Memorial Day Holiday.
- June 27 Last Day to apply for graduation in August.
- July 4 Independence Day Holiday.
- July 23 Incompletes due in the Records Office for August graduation.
- Aug. 3 Last day to file thesis/dissertation in Graduate Office for August graduation. Deadline: 2:00 p.m.
- Aug. 11 Degrees awarded.
- Aug. 14 Grades due at 9 a.m.

2001

May						
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30	31					

## 2001 First Semester (Fall)

- Aug. 19 Students eligible for Continuous Registration must be registered.
- Aug. 20 Classes begin.
- Sept. 3 Labor Day Holiday.
- Sept. 5 Plan of Study and Thesis/Dissertation Proposal approval form due in Graduate Office for any student graduating in December 2001.
- Sept. 5 Last day to apply to departments to take comprehensive examinations.
- Sept. 12 Last day to apply for December graduation.
- Oct. 12 Fall Break Day.
- Oct. 13 First half of semester ends.
- Nov. 21 Incompletes due in the Records Office for December graduation.
- Nov. 21 Thanksgiving vacation begins at 5:30 p.m.
- Nov. 26 Classes resume.
- Dec. 7 Last day to file thesis/dissertation in Graduate Office for December graduation. Deadline: 2:00 p.m.
- Dec. 8 Last day of classes.
- Dec. 10-14 Evaluation period.
- Dec. 15 Commencement.
- Dec. 18 Grades due at 9 a.m.

## 2002 Second Semester (Spring)

- Jan. 13 All students eligible for Continuous Registration must be registered.
- Jan. 14 Classes begin.
- Jan. 21 Martin Luther King, Jr. Holiday.
- Jan. 23 Plan of Study and Thesis/Dissertation Proposal approval form due in Graduate Office for any student graduating in May 2002.
- Jan. 23 Last day to apply to departments to take comprehensive examinations.
- Jan. 30 Last day to apply for graduation in May.
- Mar. 9 First half of semester ends.
- Mar. 9 Spring vacation begins at 12:00 noon.
- Mar. 18 Classes resume.
- Mar. 27 Plan of Study and Thesis/Dissertation Proposal approval form due in Graduate Office for any student graduating in August 2002.
- Apr. 19 Incompletes due in the Records Office for May graduation.
- May 3 Last day to file thesis/dissertation in Graduate Office for May graduation. Deadline: 2:00 p.m.
- May 4 Last day of classes.
- May 6-10 Evaluation period.
- May 11 Commencement.
- May 14 Grades due at 9 a.m.

## 2002

January							February							March							April							May								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
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13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18		
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25		
27	28	29	30	31			24	25	26	27	28			24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31			



# GENERAL INFORMATION

## Board of Trustees

The Board of Trustees is the governing board for Illinois State University. Members of the Board are:

Jaime Flores, Chicago  
 Nancy Froelich, Hudson  
 Diane Glenn, Chicago  
 Jack Huggins, East Peoria  
 Carl E. Kasten, Carlinville  
 Stanley Ommen, Bloomington  
 William D. Sulaski, Bloomington, Chair  
 One student

## University Administrative Officers

Victor J. Boschini, Jr., President  
 Alvin Goldfarb, Vice President and Provost  
 Elizabeth A. Chapman, Associate Provost  
 Gary McGinnis, Associate Vice President for Graduate Studies, Research, and International Education  
 W. Eric Thomas, Associate Vice President of Undergraduate Studies  
 Sharon E. Stanford, Associate Vice President for Academic Administrative Services  
 J. Robert Rossman, Dean, College of Applied Science and Technology  
 Paul T. Schollaert, Dean, College of Arts and Sciences  
 Dixie L. Mills, Dean, College of Business  
 Sally B. Pancrazio, Dean, College of Education  
 Roosevelt Newson, Dean, College of Fine Arts  
 Nancy Ridenour, Dean, Mennonite College of Nursing  
 Cheryl Elzy, Dean of University Libraries  
 Stephen Bragg, Vice President for Finance and Planning  
 Susan T. Kern, Vice President for University Advancement  
 Helen Mamarchev, Vice President for Student Affairs

## Members of the Graduate Council

Graduate Council minutes are available at [www.gradilstu.edu](http://www.gradilstu.edu).

### Admissions Committee

Erika Gilbert.....(2001)  
 Elizabeth Lugg.....(2002)  
 Joe Neisler.....(2002)  
 Stephen Perry.....(2003)

### Curriculum Committee

Sandra Zielinski.....(2001)  
 Paul Brauchle.....(2001)  
 Rodger Singley.....(2002)  
 Nina Hamilton.....(2002)  
 Donna Konradi.....(2003)

### Membership Committee

James Thompson.....(2001)  
 Richard Payne.....(2001)  
 Patrick O'Rourke.....(2002)  
 Barbara Heyl.....(2003)

### Research Committee

Ralph Weisheit.....(2001)  
 Cathy Toll.....(2001)  
 Glenn Reeder.....(2002)  
 Philip Morse.....(2003)

### Student Members

Adam Kishel  
 Tom Burrell

## Educating Illinois

### Our Heritage

The first public university in Illinois, Illinois State University was founded in 1857 as a normal university to prepare the state's teachers. Our institution has a rich heritage as the state's leader in all facets of teacher education, from classroom instruction to educational administration and statewide policy setting. Illinois State is now a comprehensive university offering more than 160 major/minor options in six colleges, but that early emphasis on education continues to shape the University, in particular our values-based commitment to creating an optimal learning environment for all Illinois State students, whether undergraduate or graduate, on campus or off campus.

### Our Values

**Individualized Attention:** Providing the supportive environment of a small college through an innovative General Education program, strong student-faculty connections, superior student services, and a focus on each student as an individual with unique educational needs and potential. Illinois State is a campus dedicated to *placing the learner at the center of teaching and research*.

**Public Opportunity:** Assuring students access to the opportunities of a large university, including a wide range of high-quality programs, faculty mentors who are scholars and creative artists of repute in their disciplines, and the support of outstanding facilities and technology.

**Active Pursuit of Learning:** Educating the complete student inside and outside of the classroom, so that students come to appreciate learning as an active and lifelong process.

**Diversity:** Encouraging community and an informed respect for all differences among students, faculty, and staff by fostering an inclusive environment that prepares students to be engaged participants in global society.

**Creative Response to Change:** Facilitating personal growth of students, faculty, and staff through innovative applications in undergraduate and graduate study, pedagogy, research, creative activities, and public service.

## Illinois State University Mission Statement

Illinois State University is a student-centered, multipurpose institution committed to providing undergraduate and graduate programs which are of the highest quality in the state of Illinois. The central mission of the University is to expand the horizons of knowledge and culture among students, colleagues, and the general citizenry through teaching and research.

Illinois State University recognizes that teaching and research are mutually supportive activities. Therefore, while developing student potential through superior teaching is the first priority of the University, the promotion of research which is recognized at national and international levels is also a high priority. Illinois State University is committed to public service activities which complement the teaching and research interests of the faculty. The University is committed to expanding student involvement in learning through the provision of outstanding campus-life programs and activities.

The goals of Illinois State University are to:

- provide the premier undergraduate education in Illinois;

- provide premier graduate education in selected areas;
- provide an academic atmosphere which nurtures intellectual activity within the University community;
- support research and creative activity which are recognized at national and international levels;
- engage in public service and economic development activities which complement the University's teaching and research functions;
- expand and strengthen graduate programs in areas which build on the strengths of undergraduate programs and/or which have a unique educational focus;
- provide opportunities for students to increase their capacity for inquiry, logical thinking, critical analysis, and synthesis and to apply these abilities in the pursuit of one's discipline;
- increase understanding of global and national interdependence and expand knowledge and understanding of other cultures in the context of a multicultural society;
- provide co-curricular activities, programs, and services that augment the formal education of students and maximize their involvement in the educational process;
- provide access and services for students from underrepresented groups and students with special talents;
- encourage academic diversity by supporting the unique missions and strengths of each of the colleges.

-- Revised by Academic Senate, Fall 1993

## The University

The documents establishing Illinois State University as a pioneer educational undertaking were drafted by Abraham Lincoln. Academic programs and courses are offered in thirty-six academic departments which are organized into six colleges. Over 20,000 students have a full range of study options in business, liberal arts, science, fine arts, education, applied science, technology, nursing, and pre-professional fields. Major classroom buildings are centrally located and are surrounded by the library, and recreational and residence structures.

The Central Illinois community of Normal-Bloomington, home of Illinois State University, has a population of 100,000.

## University Commitment to Diversity

Illinois State University's commitment to diversity exists at the highest level. The Board of Trustees and the Office of the President have approved a University Plan for Diversity. Part of that Plan is to make known to individuals seeking information about Illinois State University, that it is committed to a series of goals and actions to continually enhance the climate for diversity on campus.

## Mission Statement of the Graduate School

The Graduate School advances the University's mission to expand knowledge and culture among students, colleagues, and the general citizenry through teaching, research, and service. Graduate education provides opportunities for all students, including those from underrepresented groups, to learn advanced skills enabling them to generate knowledge through research and creative endeavors, to disseminate their scholarship, and to prepare for careers throughout the public and private sectors.

The Graduate School supports the expansion and strengthening of graduate programs including: (1) master's programs in areas that build on strengths of undergraduate programs, have a unique educational focus, or prepare students for viable careers; (2) doctoral programs in areas of demonstrated programmatic strength and expertise or where a compelling societal need exists. Illinois State University is classified as a Carnegie Doctoral/Research University-Intensive institution.

## The Graduate School

The University began offering graduate work in 1943, when it introduced master's degree programs in several departments. The number of degrees has increased gradually since that time, with doctoral work being introduced in 1962.

Today the Graduate School offers master's degree work in more than thirty academic fields and professional education areas as well as the Specialist in School Psychology degree. The Master of Fine Arts (M.F.A.) degree is offered in Art and Theatre. The Master of Science in Nursing (M.S.N.) is offered by the Mennonite College of Nursing. Doctoral programs are offered in Biological Sciences, Curriculum and Instruction, Educational Administration, English Studies, Mathematics Education, School Psychology, and Special Education.

The members of the graduate faculty of each department are listed in the departmental sections. The entire faculty of the Graduate School is shown in a section after the Departments and Course Offerings.

It is the chief aim of the Graduate School to provide an atmosphere in which competent students may join a qualified faculty in extending their fields of knowledge, and where they may share experience in research leading to professional improvement and scholarly achievement.

## Graduate Student Association

The Graduate Student Association (GSA) is an organization composed of all graduate students. With representatives from each academic department with a graduate program, GSA provides a forum to express concerns for the academic and nonacademic needs, to develop and disseminate ideas for improvement of graduate education, and to assist in the orientation of graduate students to the University. Bi-monthly meetings are open to all graduate students. Six GSA department representatives, each representing one of the six colleges, form the Research and Professional Advancement committee, which recommends distribution of the Grant-in-Aid funds to the Graduate School. Two GSA members serve on the Academic Senate, which is the policy-making body for the University. Two members of the GSA also serve on the Graduate Council, which is the policy-making body of the Graduate School, with one on the Graduate Curriculum Committee. Graduate associations for specific groups, e.g., the Black Graduate Student Association (BGSA) and the MBA Association, coordinate events and activities with the GSA.

## Graduate Research Symposium

Student research is showcased each spring in the Graduate Research Symposium, sponsored by the Graduate School, the Graduate Student Association, and the University Research Office. Students must be enrolled and engaged in research under the direction of a faculty advisor.

The symposium recognizes and promotes student research by providing a professional setting in which students present their research. Presentation options include poster, oral, multimedia, and class presentation.

In addition to recognizing and encouraging research at the graduate level, this event also provides professional advancement experience. Presenters at the symposium are eligible to apply for travel support to present research at off-campus professional conferences. Funds are available through the Graduate School when matched by department funding. (See Research Requirements and Grants and Scholarships sections.)



## Accreditation

Illinois State University is accredited by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools (NCA-CIHE). For further information regarding this accreditation, contact NCA-CIHE at 30 North LaSalle Street, Suite 2400, Chicago Illinois 60602, Phone 312-263-0456. All teacher preparation programs are accredited by the National Council for Accreditation of Teacher Education and are certified by the Illinois State Board of Education. A number of programs hold discipline-based accreditation. The University holds institutional memberships in the American Council of Education, the American Association of Colleges for Teacher Education, and the Council of Graduate Schools of the United States.

## Library Resources

Milner Library is an active partner in the teaching, learning, research, and service activities of Illinois State University. Milner librarians provide research assistance and library instruction customized to meet the needs of students and faculty. Reference collections include general, as well as subject-specific, print research tools including indexes, handbooks, dictionaries, bibliographies, and directories. Electronic research tools include the Online Catalog (ILLINET Online), bibliographic and full-text databases, and reference databases. The library's collections include over 1.3 million books, 5,000 current magazine and journal subscriptions, and 25,000 multimedia items. Milner's Web site ([www.mlb.ilstu.edu](http://www.mlb.ilstu.edu)) serves as an electronic guide to library resources, services, facilities, and staff.

The library is located on the northeast corner of the quad, next to the Bone Student Center. Each of the six floors of the Library provide a variety of study areas -- individual carrels, small tables, and lounge chairs -- all located adjacent to books, periodicals, and other library materials. Each floor is devoted to a particular subject area -- the humanities, the social sciences, the sciences, and education-psychology -- with the main floor providing general resources and services, as well as a 110-workstation computer study area. A librarian-liason is assigned to each campus department (listed at [www.mlb.ilstu.edu/about/subdirfa.htm](http://www.mlb.ilstu.edu/about/subdirfa.htm)).

Through participation in a variety of consortiums, Milner Library provides interlibrary loan access to materials in library collections throughout the United States and the world. In addition, Milner's Document Delivery Service provides 24-48 hour fax delivery of some journal articles. An Interlibrary Delivery System brings materials from other Illinois libraries to campus daily.

The library's main floor is open 24 hours daily, Sunday noon through Friday midnight. For a complete listing of the library's hours, call 438-3684. For research assistance, call 438-3451.

## University Galleries and Museums

Founded in 1973, University Galleries is among the largest public exhibition spaces in downstate Illinois devoted to presenting a wide survey of contemporary art. University Galleries is a unit of the College of Fine Arts and is located in the Center for the Visual Arts building. The main focus of University Galleries is generating and traveling innovative exhibitions featuring locally, regionally, and nationally known artists working in a variety of mediums, styles and conceptual approaches. Also regularly scheduled are exhibitions of Illinois State faculty, student, and alumni artwork, as well as selections from the permanent collection of over two thousand 20th century paintings, drawings, prints, sculptures, pho-

tographs, and objects in glass, metals, wood, fiber and ceramic. University Galleries publishes illustrated catalogues that are distributed worldwide, and are available at a discount to all students, staff and faculty.

In addition to exhibitions, University Galleries presents extensive educational programs open to the university and general community, including artist lectures, panel discussions, workshops, films and video, guided tours, research and study facilities, informational brochures, and classes, internships, and student employment. University Galleries also hosts meetings, dance and music events, plays, performances, lectures, readings and films for a variety of university and community groups.

**The Eyestone School Museum**, a renovated 1900 one-room school, is located at Adelaide and College Streets. It is open by reservation only, through the College of Education.

**The Stevenson Memorial Room**, on the first floor of Stevenson Hall, displays memorabilia of the Stevenson family with particular emphasis on Adlai E. Stevenson II.

**The President's Gallery**, located on the fourth floor of Hovey Hall, features works in multiple media by students and faculty artists who have studied or worked at Illinois State University.

## Distance Education

At Illinois State University, there are graduate courses and programs that a student can complete without physically coming to the Normal campus. (See Quad Cities below.) Courses and programs are offered in various formats:

**Extension** courses are typically taught in traditional formats by Illinois State faculty members at approved off-campus sites throughout the state.

**Internet** courses make use of Illinois State's connection to the World Wide Web and other electronic resources. These courses may utilize online materials, courseware, and discussion groups, and may be delivered in an asynchronous mode.

**Interactive Television (ITV)** courses originate on site at Illinois State and are broadcast to one or more distant sites in real time with interactive audio/video.

**Contract** educational services, programs and courses are delivered through mutual contract to a business or educational site for a specific cohort or business entity.

For courses offered by Illinois State University, no differentiation is made between credits earned on campus, off campus, or by alternate delivery methods such as the Internet or interactive television. For further information, contact the Office of Extended University at (309) 438-5288, or view the Web site at [www.exu.ilstu.edu](http://www.exu.ilstu.edu).

## Quad Cities Graduate Study Center

The mission of the Quad-Cities Graduate Study Center is to provide graduate level coursework and programs to residents of the greater Quad Cities. Formed in 1969, the Center is a voluntary academic consortium of twelve public and private higher education institutions in Illinois and Iowa. The Graduate Center serves the needs of place-bound students whose work and family responsibilities make traditional on-campus study difficult. Courses are held during evening and weekend hours to accommodate students' daily schedules. Currently Illinois State University is offering the doctoral program in Educational Administration.

For information contact Quad Cities Graduate Center, 639 38th Street, Rock Island, Illinois 61201, (309) 794-7476, fax (309) 794-1905, email [QC@gradcenter.org](mailto:QC@gradcenter.org) or Web site [www.gradcenter.org](http://www.gradcenter.org) or Illinois State University at [www.ilstu.edu](http://www.ilstu.edu).

## Intensive English Program

Illinois State University's English Language Institute, under the auspices of the Department of English, provides a special non-degree intensive program (20 hours per week) in English as a Second Language with equal emphasis on both communicative and academic needs for international students who wish to increase their English proficiency for graduate-level work or for international students on exchange programs.

Although admission to ELI does not guarantee subsequent admission to a graduate degree program at the University, ELI students who attain a TOEFL score of 550 for pencil/paper test, or 213 for computer-based test, or a higher score established by individual departments, can be admitted to a graduate degree program at the University, provided they also meet the other requirements for admission specified by the Graduate School and the relevant department. Hence, international students who do not have the minimum TOEFL score for admission to a graduate degree program are encouraged to attend ELI first to prepare for admission to such a program at the University. Most students live in the University's campus housing, giving them a chance to interact with students of all

backgrounds. For further information, contact English Language Institute, Illinois State University, Campus Box 6123, Normal, IL 61790-6123.

Phone: 309-438-2072  
Fax: 309-438-3031  
Web site: [www.cas.ilstu.edu/English/ELI/eli.html](http://www.cas.ilstu.edu/English/ELI/eli.html)  
E-mail: [eli@ilstu.edu](mailto:eli@ilstu.edu)

## Preparing Future Faculty

### Center for the Advancement of Teaching

#### Graduate Student Intern Program

The Center for the Advancement of Teaching (CAT) offers one to three graduate student internships each semester (fall, spring). The goals of the program include the following: 1) to offer, with the student's department, an intensive opportunity to help prepare graduate students planning a career in college teaching; and 2) to have a positive impact on the student's teaching at Illinois State University. For additional information, contact Nancy Bragg ([njbragg@ilstu.edu](mailto:njbragg@ilstu.edu)).



# COSTS AND PAYMENT POLICY

## Tuition and Fees

Tuition and fee rates for 2001-02 have been approved as listed below, however they are subject to change by action of the Board of Trustees. Fees other than health insurance are assessed at a per semester hour rate through the first twelve hours. Health insurance is assessed to all students enrolled in nine or more semester hours and to all graduate assistants. Tuition is assessed at per semester hour rates through the first sixteen hours.

### RATE SCHEDULE

	Residents	Non-Residents
Tuition per semester hour:	\$112.14	\$245.00
Total Fees, 2001-02:	\$40.59	\$40.59

Fees per semester hour:

*(Individual 2001-02 fees will be determined by student fee review committees during the current school year but will equal the total shown above.)*

	2000-01	2001-02
General Activity	\$4.90	\$5.23
Athletic and Service	\$8.63	\$8.84
Bone Student Center	\$5.80	\$6.00
Recreation and Athletic Facilities	\$3.49	\$3.49
Redbird Arena	\$4.83	\$4.83
Campus Enhancement	\$5.35	\$5.83
Health Service	\$5.68	\$5.83
Student to Student Grant	\$0.37	\$0.37
Grant-in-Aid	\$0.15	\$0.15

Health Insurance (9 or more hrs.)	\$88.00	\$88.00
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Examples (2001-02):

3 semester hours	\$458.19	\$856.77
6 semester hours	\$916.38	\$1,713.54
9 semester hours	\$1,462.57	\$2,658.31
12 semester hours	\$1,920.76	\$3,515.08
16 or more semester hours	\$2,369.32	\$4,495.08

## Summer Session Costs

The 2002 summer session costs for tuition and fees are the same as above, except students enrolled for six semester hours and graduate assistants with tuition waivers in effect on the eighth calendar day of the session will pay \$62.00 for insurance.

## Auditors

Fees for students who take all courses as auditors without credit are charged at the rates shown above to a maximum of 16 hours.

## Other Fees and Expenses

Registration Installment Fee .....	\$ 25.00
Late registration and/or late payment fee .....	25.00
—charged after scheduled dates	
Master's Thesis 499.01 (Audit).....	112.14
Doctoral Dissertation 599.01 (Audit) .....	112.14
Graduation fee .....	25.00
—must be paid before published deadline	

Doctoral dissertation fee (microfilming) .....	50.00
Doctoral dissertation fee (copyright) .....	35.00
—optional	

**Material Charges** listed under course offerings in the *Graduate Catalog* and *Class Registration Directory* are optional. A student may supply his or her own materials and request the instructor in writing to waive the materials charge.

## Resident/Non-Resident Status

An applicant or enrolled student is classified either as a resident of Illinois, a nonresident, or a foreign student. Residency for tuition purposes is different from residency for voting, taxing purposes, or residency requirements of on-campus doctoral programs.

A student must be a U.S. citizen or have been approved for U.S. Permanent Resident status in order to be considered as an Illinois resident. An individual's residency status is based on information from the admission application. A student who is not a resident of Illinois pays the non-resident tuition fee as indicated. All other fees are the same for non-residents. A student under 18 years of age is considered a non-resident if the student's parents are not legal residents of Illinois. A student over 18 years of age is considered a non-resident if the student is not a legal resident of Illinois. Personnel within Academic Records and Course Registration Services are responsible for determining residency. Tuition and fees are subject to change by action of the Board of Trustees and the General Assembly.

## Payment of Tuition and Fees

The University offers a registration installment plan for the payment of tuition and fees for the Fall and Spring semesters. For those selecting that option, a \$25.00 registration installment fee will be assessed, with approximately one-fourth due in August, September, October, and November for the fall semester, and one-fourth due in January, February, March, and April for the spring semester. The *Class Registration Directory* gives further information and lists specific dates.

## Refund Policy

A registered student who officially withdraws from the University may receive a reduction of tuition and fees, including any advance deposit, according to the following schedule:

1. If withdrawal is prior to the first regularly scheduled class day, all tuition and fee charges are deleted.
2. If withdrawal is within the first fifteen calendar days after the first regularly scheduled class day, all tuition and fees minus a service charge of \$30.
3. If withdrawal is after the fifteenth calendar day but within the sixty percent point in time of the period of enrollment - a refund equal to the portion of the period of enrollment remaining, rounded downward to the nearest ten percent, less an administrative fee not to exceed the lesser of five percent of the initial tuition, fees, and other charges assessed the student or \$100.
4. If withdrawal is after the sixty percent point in time of the period of enrollment, no refund shall be made.

The University may designate shorter refund periods for summer session, special courses, and short courses.

All notifications of withdrawal or cancellation and requests for refunds must be in writing and addressed to Academic Records and Course Registration Services, Illinois State University, Campus Box 2204, Normal, IL 61790-2204.

A student who changes from full-time to part-time status or a part-time student who reduces the number of credit hours carried may receive a reduction of tuition and fees according to the following schedule:

1. If the reduction is on or before the fifteenth calendar day after the first regularly scheduled class day, all tuition and fees not applicable to the new part-time status will be reduced. A service charge is not applicable to a student who changes from full-time to part-time status.
2. If the reduction is after the fifteenth but no later than the thirtieth calendar day after the first regularly scheduled class day, twenty-five percent of the difference in tuition charge only is reduced.

The student may receive a refund of the insurance fee if the student demonstrates equal or better insurance coverage on or before the fifteenth calendar day after the first regularly scheduled class day.

A student whose course of study requires absence from campus for the entire term shall, upon proper application, receive refund of activity, health service, and athletic fees. The application for such refund must be made on or before the fifteenth calendar day after the first regularly scheduled class day.

Pursuant to guidelines established by the University, part or all of a student's tuition and fees may be refunded because of the student's death or disability, extreme hardship, or institutional error.

A student may receive a refund of tuition and fees if a scholarship is awarded which covers those fees. The application for refund must be made no later than 60 days after the close of the session.

A student may receive a refund of tuition and fees if the University declares him/her ineligible for enrolled status prior to the first day of regularly scheduled class.

The statement of the refund policy for university housing is a part of the housing contract.

Examples of the application of the refund policy may be obtained from the Student Accounts Office.

Students or parents who believe that individual circumstances warrant exceptions from published policy may appeal to the Associate Vice President for Student Affairs.

## Confidentiality of Student Records

In accordance with the Family Educational Rights and Privacy Act of 1974, as amended, Illinois State University students have the right to review, inspect and challenge the accuracy of information kept in a cumulative file by the institution unless the student waives this right in writing. It also insures that records cannot be released in other than emergency situations without the written consent of the student except in the following situations:

1. to officials of other schools or school systems in which the student intends to enroll, upon condition that the student be notified of the transfer, receives a copy of the record if desired, and have an opportunity for a hearing to challenge the content of the record;
2. to authorized representatives of 1) the Comptroller General of the United States, 2) the Secretary of the Department of Education, 3) an administrative head of any educational agency, or 4) State educational authorities;
3. parents of a dependent student as defined in Section 152 of the Internal Revenue Code of 1954. (The student will be notified of any such request by University per-

4. sonnel contacting the student and/or by sending a letter to local and home address);
4. organizations conducting studies for, or on behalf of educational agencies or institutions, provided the study is conducted in a manner that does not permit personal identification of parents and students by individuals other than representatives of the organization and that the information is destroyed when no longer needed for the purposes for which the study was conducted;
5. accrediting organizations to carry out their accrediting functions;
6. to comply with a judicial order or lawfully issued subpoena;
7. to other school officials, including faculty within the educational institution or local educational agency who have legitimate educational interests;
8. in connection with the student's application for, and receipt of, financial aid;
9. where the information is classified as directory information. The following categories of information have been designated by the University as directory information: name, address, telephone number, date and place of birth, major

field of study, class, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance and course load status, candidacy for degree, degrees (including date awarded) and awards received, and the most recent previous educational agency or institution attended by the student. If you do not wish such information released without your consent, you should notify the Registration Office, 209 Julian Hall, Campus Box 2204, prior to the first day of classes.

10. disclosure is in connection with a health or safety emergency, under conditions described;
11. disclosure is to an alleged victim of any crime of violence as that term is defined in Section 16 of Title 18, United States Code.

Questions concerning this law and the University's policy concerning release of student information and procedures for contesting the content of cumulative files may be directed to the Office of General Counsel, Hovey Hall 208, Campus Box 1010, (309) 438-8999.

# STUDENT SERVICES

## Student Health Program

Student Health Service	(309) 438-8655
TDD	(309) 438-2498
Student Insurance	(309) 438-2515

The Student Health Service and Student Insurance Office are located on the second floor of the Student Services Building on the corner of College Avenue and University Street, just west of the Bone Student Center.

The Student Health Program consists of two components: 1) the on-campus Student Health Service and 2) a comprehensive low cost Student Health and Accident Insurance Plan that supplements services available through the Student Health Service. All students who register for one or more credit hours and who pay a Student Health Service fee, and all graduate students with a tuition waiver who pay a Student Health Service fee are entitled to use all the services at the on-campus Student Health Service for the entire semester or session. Spring semester students who do not plan to attend the summer session classes may obtain prepaid summer health care if they pay the appropriate health fee. Enrolled students may purchase Student Health Service access for spouses/domestic partners if they pay the fee. All optional health fees are payable at the Student Health Service.

Regarding health insurance, all students who register for nine or more hours during the fall and spring semesters by the fifteenth calendar day of classes (or for six or more hours by the eighth calendar day of the variable length summer session) and all graduate assistants with tuition waivers are assessed a health insurance premium.

## On-Campus Student Health Service

The health program is fully accredited by the Accreditation Association for Ambulatory Health Care, Inc. Health services at the clinic are comparable to those offered by most private community physicians. The clinic is staffed with licensed physicians, registered nurse practitioners, physician assistants, and registered nurses. Services available include a medical clinic, Women's Health Clinic, diagnostic laboratory, radiology, pharmacy, allergy injections/immunizations, health promotion programs by health educators, nutrition analysis, etc. Students wanting to use the clinic should call (309) 438-2778 to schedule an appointment and bring their Illinois State Student ID card when checking in.

Complicated illnesses or injuries requiring surgery or long term care will usually be referred to an outside specialist. New students who have chronic medical conditions such as asthma, diabetes, or epilepsy, which require continuous monitoring and treatment, should retain the services of private physicians for the continuing supervision and management of their condition.

The Health Service will be glad to furnish supportive care and assist the student's private physician in the student's care if the private physician furnishes written instructions. There are competent medical specialists plus two hospitals in the Normal-Bloomington area that are equipped to handle medical problems should they arise. Information regarding medical services can be obtained by contacting Student Health Service, Main Reception Area in the Student Services Building, or by calling (309) 438-8655.

## Student Health and Accident Insurance

The **Student Health Insurance Fee** provides a health and accident insurance policy intended to meet the needs of students without other insurance or to provide 100 percent coverage for insured expenses by coordinating with a family policy. Insurance coverage is world-wide. The policy includes a \$1,000,000 maximum, a \$1000 stop loss provision designed to provide catastrophic coverage while limiting out-of-pocket expenses, and a \$50.00 deductible. This deductible is waived if other insurance is also in force. The schedule of benefits includes services for hospital inpatient and outpatient use including emergencies, surgical and anesthesia fees, physician's charges, consultation expenses, lab and radiology expenses, and ambulance services. A complete schedule of benefits may be obtained from the Office of Student Insurance (room 230) in the Student Services Building.

Student insurance coverage begins the Monday prior to the first day of regularly scheduled fall classes, the Thursday prior to the first day of regularly scheduled spring classes, and on the first day of classes for summer session. This coverage is terminated on the first day of classes of the next regularly scheduled term. Continuous year-round coverage is available if the student maintains University registration at nine or more hours during the first and second semesters and applies for summer coverage at the Student Health Insurance Office prior to the expiration of spring coverage. A summer insurance fee will be assessed in tuition and fees only by registration of six or more credit hours prior to the eighth calendar day of the variable length summer session. An insured student who graduates may purchase one additional term at the group rate by applying prior to graduation day. This policy contains no extension of benefits into a non-covered semester for any condition. Extension of coverage for existing conditions, such as maternity, is available through the continuation option, details of which can be obtained from the Student Insurance office. Although dependent coverage is not included in the Student Plan, the Student Insurance Office can provide suggested alternatives for students needing dependent coverage.

It is strongly recommended that students remain enrolled in this plan even if other health insurance is present. A request to cancel this insurance plan is permitted during the first 15 calendar days of each semester (eight days during the summer session), for those students who prove they have comparable insurance coverage (insurance I.D. card or copy of policy) and complete the required petition in the Student Insurance Office. However, experience has often shown that the premium for the Illinois State plan is less than out-of-pocket bills that many have to pay because of higher deductibles and co-insurance provisions in their own policy. Additionally, students sometimes lose coverage through their parent's plan because of age limitations, changes in dependent status, or changes in employment of parents. Thus, it can be more economical to remain enrolled in the Illinois State plan.

The previous information is a summary of benefits and enrollment procedures. Persons desiring specific information about the Illinois State Student Health Insurance Plan should contact the Student Insurance Office (room 230) in the Student Services Building, (309) 438-2515.

## Living Accommodations

Students with disabilities are requested to contact the Director of Disability Concerns, Fell Hall 388.

### On-Campus Apartments

Two apartment complexes provide students with an environment conducive to both personal and academic growth. Qualifying single graduates, upperclass students, married students, and students with dependents are eligible to occupy these unfurnished apartments. The complexes, Cardinal Court and 300 Shelbourne Drive, offer a quiet environment, community atmosphere, excellent maintenance service, spacious grounds, and good proximity to academic buildings.

For additional information and an application, contact the University Housing Services at (309) 438-8611.

### Residence Halls

The University has thirteen residence halls providing living accommodations for approximately 7,300 students. These facilities include spaces accessible to students with disabilities. Among the advantages offered by residence hall living are the convenience of location with meal service and the opportunity to select from many lifestyle areas, such as the Graduate Student Lifestyle. This lifestyle provides graduate students with the opportunity to live and interact with their peers. Beginning in the spring, residence hall applications are automatically mailed to students who have been admitted to the University for the following academic year. Beginning May 13, 2001, all residence halls will be smokefree. Additional information regarding residence hall living may be obtained by contacting University Housing Services, (309) 438-8611.

### Off-Campus

Apartments and rooms are available in the Normal-Bloomington community. The University has no participation in housing contracts issued to students renting space in private housing and does not participate in the inspection of any off-campus housing.

## Financial Aid

### General Information

Each year, many Illinois State graduate students receive financial assistance in the form of loans, scholarships, tuition waivers, grants, and employment. Financial aid is coordinated through the Financial Aid Office, located in 231 Fell Hall. Office hours are 8 a.m. to 4 p.m. for telephone service, and 9 a.m. to 4 p.m. for appointments and walk-in service when Illinois State is in session. In addition, you may access information at [www.fao.ilstu.edu](http://www.fao.ilstu.edu), the Web site for the Financial Aid Office. General and specific information from the Web site includes:

- \* general information about the Illinois State Financial Aid Office, office hours, phone number and location; information concerning the application process, cost of attendance and programs available to students;
- \* **FAFSA on the Web**, which allows you to file the Free Application for Federal Student Aid electronically;
- \* a link to Illinois State's Student Information Access System (SIAS) so that you can check the status and progress of your aid application after being admitted to Illinois State. SIAS also allows you to access information from Student Accounts concerning your bill and refund release. In addition,

you can verify and/or update your address information on file with the Office of the University Registrar.

Financial Aid information is also available via telephone through STAR+, (309) 438-7827. You will use a PIN number issued by Illinois State to access your information. Contact the Registration Office for assistance.

Using e-mail at [asfao@ilstu.edu](mailto:asfao@ilstu.edu) is another medium to contact the Financial Aid Office. You will receive a response within two business days.

### General Eligibility Criteria

To qualify for federal or state financial aid programs, you must:

1. Be a United States citizen or classified as a resident alien.
2. Complete and submit the Free Application for Federal Student Aid (FAFSA) to the federal processor either on paper or on line.
3. Be enrolled for a minimum of 5 hours per semester (half-time status). **Graduate students-at-large** may be eligible for loans by appeal only.
4. Not be in default of a Perkins Loan or any federally insured/guaranteed loan (GSL, PLUS, ALAS, SLS) approved by a guaranty agency.
5. Not owe a repayment to a federal grant program.
6. Make satisfactory progress toward a degree as defined by Illinois State University.
7. Be registered with Selective Service, if you are a male of at least 18 years of age, born after 1959, and not currently an active member of the U.S. Armed Forces.

**NOTE: A student may not receive federal or state financial aid from more than one institution at the same time.**

### Application Procedures

To be considered for financial aid at Illinois State University, you must complete and submit either the Free Application for Federal Student Aid (FAFSA), the Renewal FAFSA, or FAFSA on the Web, [www.fao.ilstu.edu](http://www.fao.ilstu.edu), after January 1. Using the on-line application is faster and less error-prone.

You can get the FAFSA at any financial aid office. The Renewal FAFSA will be sent to you from the federal processor if you applied for financial aid during the immediate past academic year.

The income and asset information provided on the FAFSA determines your financial aid eligibility. Be sure to use Illinois State's Title IV school code: 001692. There is no separate institutional application for financial aid.

## GRANTS AND SCHOLARSHIPS

Grants and scholarships are available on a limited basis through institutional and private sources for graduate students. Institutional grants and scholarships include tuition waivers. These are described below. Private agencies including clubs, foundations, organizations, corporations, and churches may also offer limited assistance to graduate students.

### Resolution Regarding Graduate Scholars, Fellows, Trainees, and Assistants

In 1965, the Council of Graduate Schools (CGS) approved the following resolution regarding offers of financial assistance such as scholarships and tuition waivers. The Graduate School endorses this resolution. Questions regarding the application of this resolution should be addressed to the Graduate School.

The acceptance of an offer of financial support (such as a graduate scholarship, fellowship, traineeship, or

assistantship) for the next academic year by a prospective or enrolled graduate student completes an agreement that both student and graduate school expect to honor. In that context, the conditions affecting such offers and their acceptance must be defined carefully and understood by all parties.

Students are under no obligation to respond to offers of financial support prior to April 15; earlier deadlines for acceptance of such offers violate the intent of this Resolution. In those instances in which a student accepts an offer before April 15, and subsequently desires to withdraw that acceptance, the student may submit in writing a resignation of the appointment at any time through April 15. However, an acceptance given or left in force after April 15 commits the student not to accept another offer without first obtaining a written release from the institution to which a commitment has been made. Similarly, an offer by an institution after April 15 is conditional on presentation by the student of the written release from any previously accepted offer. It is further agreed by the institutions and organization subscribing to the above Resolution that a copy of this Resolution should accompany every scholarship, fellowship, traineeship, and assistantship offer.

**Graduate Trustee's Tuition Waiver Awards:** Graduate Trustee's Tuition Waivers are awarded on a competitive basis by departments offering graduate programs and by the International Studies Office to students who show promise for success and who have not received a fellowship or other award funding tuition costs. Students who are interested in a tuition waiver should complete an application provided by the department offering the degree program in which they wish to enroll. International students may apply to either their department or the Office of International Studies. Tuition waivers are also awarded to students as part of a graduate assistantship contract.

**Minority Tuition Waiver Fellowships:** The Graduate School awards a limited number of tuition waivers to minority students who are admitted or seeking admission to a degree program and who are particularly deserving of assistance in meeting their educational objectives.

**McNair Program Tuition Waiver Fellowships:** The Graduate School awards a limited number of tuition waivers to incoming graduate students who are admitted to a graduate degree program and who have completed the requirements of a McNair Program Scholar at a college or university authorized to offer Ronald E. McNair Postbaccalaureate Achievement Programs. The application fee for admissions is waived. Please note on the application that you are a McNair Scholar.

**McNair Book Scholarships:** The Graduate School offers a \$500 book scholarship (\$250 for fall and spring semesters) for up to five incoming or continuing Ronald E. McNair Postbaccalaureate Achievement Program Scholars admitted to graduate degree programs at Illinois State University and enrolled full time. Scholars are recommended for the award by their departmental graduate degree program advisor at Illinois State.

**Research Symposium Travel Support:** Research Symposium travel support is available through the Graduate School and University Research Office on a matching basis with academic departments to students who have presented research at the annual spring Graduate Research Symposium.

**Research and Professional Development Program:** Small grants for graduate students' research and travel to present the

results of research are available through the Graduate School under the sponsorship of the Graduate Student Association.

**The Ada Belle Clark Welsh Scholarship:** The Ada Belle Clark Welsh Scholarship Fund provides a one-time award of approximately \$2500 to women with undergraduate degrees who show promise and are deserving of a graduate educational opportunity in the field of liberal arts and humanities, including study for teacher preparation or improvement. Criteria shall include, in order of importance: a record of academic excellence, evidence of career orientation, and need. Application forms may be obtained from the Graduate School office. Applications and supporting material must be received in the Graduate School office by March 15.

**Ora Bretall Scholarship:** Ora Bretall Scholarships will be awarded on a one-time basis to persons enrolled in graduate programs at Illinois State University whose proposals for master's thesis or doctoral dissertation deal significantly with issues in educational theory or philosophy of religion, and who show promise of continued contribution to the development of educational theory and practice. Educational theory refers to study in pedagogy, educational foundations, curriculum and educational administration. Eligible students from all colleges in the University may compete for an Ora Bretall Scholarship.

As a general guideline, an award of \$1,000 for master's thesis and \$2,000 for doctoral dissertation will be made, although variation to this standard may be made by the Scholarship Committee in relation to special aspects of the proposed thesis/dissertation project and funds available from the endowment.

The criteria for evaluation will emphasize scholarship and potential as demonstrated by a) the applicant's academic record, b) the proposed thesis/dissertation project, and c) letters of recommendation. Application forms may be obtained from the Graduate School. Awards will be made twice a year. Applications and supporting material must be received in the Graduate School office by September 15 or March 15.

**Donald F. McHenry Fellowship:** The Donald F. McHenry Fellowship is a one-time award of \$6,000 to minority graduate students. A tuition waiver for the academic year is also provided. Applicants must be U.S. citizens of African, Asian, Hispanic or Native American ethnicity, admitted to an Illinois State graduate program, and attend on a full-time basis. Scholarship, financial need, evidence of leadership, and career goals will all be considered. Applications and supporting material are available in the Graduate School office and must be received by April 1.

**Lela Winegarner Scholarship for International Students:** Lela Winegarner Scholarships are awarded to promising international students who are pursuing careers of service to their country. The selection committee evaluates applicants' demonstrated scholarship and potential for using their education in a service capacity in their native country. All international students admitted to an Illinois State University Graduate School program whose career objectives meet the above criteria are eligible. The amount of the awards will vary in accordance with available funds. Applications and supporting material are available in the Graduate School office and must be submitted by September 15.

**Thesis and Dissertation Awards:** The James L. Fisher Outstanding Thesis Award and the Clarence W. Sorensen Distinguished Dissertation Award provide recognition for completed theses and dissertations judged to be of the highest quality in university-wide competitions. A monetary award

accompanies this distinction. Nominations are put forward by academic departments.

**Illinois State University Foundation Fellowship:** The Foundation Fellowship for Graduate Students is an award of three thousand dollars (\$3,000) to incoming students who have demonstrated a potential for academic excellence. Applicants must have attained a cumulative grade point average of 3.6 on a 4.0 scale on previous undergraduate and graduate course work.

Applicants interested in a Foundation Fellowship should obtain an application form from the Graduate School Office, in 310 Hovey Hall, and return the completed form with the required supportive materials to the Graduate School. Applications must be received by March 15. Candidates who are admitted to their degree program by March 15 will be considered.

**Illinois Consortium for Educational Opportunity Program:** Awards are funded by the State of Illinois. The Illinois Consortium for Educational Opportunity Program (ICEOP) is a program to increase access of underrepresented students to graduate degree programs in Illinois universities. The ultimate purpose of the program is to increase the number of underrepresented faculty and staff in Illinois colleges and universities.

To be considered for an ICEOP award, an applicant must be (1) an Illinois resident and a U.S. citizen or permanent resident; (2) African-American, Hispanic, Asian-American, or Native American; (3) the recipient of an earned baccalaureate degree; (4) of above average academic ability as evidenced by admission to a graduate professional degree program at a participating ICEOP institution; and (5) unable to pursue a graduate professional degree in the absence of an ICEOP award. Each award provides up to \$10,000 annually. Award recipients in doctoral programs may receive awards for up to four years to a maximum of \$40,000. Those in master's or professional degree programs may receive awards for up to two years to a maximum of \$20,000.

Applicants for the ICEOP awards participate in a state-wide competition. Inquires should be directed to the Graduate School (309) 438-2583, e-mail: gradinfo@ilstu.edu or Web site at www.grad.ilstu.edu.

**Illinois Minority Graduate Incentive Program:** Awards are funded by the State of Illinois. The purpose of the Illinois Minority Graduate Incentive Program is to increase the number of African-American, Hispanic and Native American members of the faculties and professional staffs at Illinois institutions of higher education where there is severe underrepresentation of minorities. To be considered for an IMGIP fellowship an applicant must be (1) a citizen or permanent resident of the United States; (2) African-American, Hispanic, or Native American; (3) the recipient of an earned baccalaureate degree; and (4) accepted for admission to a doctoral program at one of the participating universities in fields where there is severe underrepresentation, specifically in the life sciences, physical sciences, engineering, and mathematics. In addition to full tuition and fees, each fellow will receive an annual stipend of \$15,000 (which includes an allowance of \$1,500 for books, supplies, equipment, and travel) for a maximum of three years.

Applicants for the IMGIP awards participate in a state-wide competition. Inquiries should be directed to the Graduate School (309) 438-2583, e-mail: gradinfo@ilstu.edu or Website at www.grad.ilstu.edu.

**Black Graduate Student Association Scholarship:** The Black Graduate Student Association offers a \$250 books/supplies scholarship (\$125 per semester) to two incoming/enrolled black graduate students. Applications are

available in the Graduate School. Awards are contingent on availability of funds.

**Project 1000:** Project 1000 is a national program created to assist underrepresented students applying to graduate school. The application fee for admissions is waived. Applicants should note on the application that they are with Project 1000. For additional information, contact gradinfo@ilstu.edu.

## LOANS

**Federal Perkins Loan:** Federal Perkins Loans are available from funds provided jointly by the federal government and the University. Student cumulative loan amounts cannot exceed \$15,000 for the undergraduate program and \$30,000 for the student's total postsecondary program, including undergraduate and graduate studies. At Illinois State, funding seldom supports awards greater than \$1,000 per year. These loans are based on demonstrated financial need as determined by the Student Aid Report (SAR). No repayments are due and no interest accrues until six months (continuing borrowers) or nine months (first-time borrowers) after the student leaves school or ceases to be at least a half-time student. The interest rate is five percent per year and the borrower has up to ten years to repay the loan. The minimum repayment is \$50 per month.

**Federal Direct Student Loan Program:** With this program, Illinois State will receive loan funds directly from the U.S. Department of Education. Due to the classification as a direct lending institution, Illinois State will receive your loan proceeds and apply the funds directly to your university charges. If you have more financial aid than charges, you will receive a refund.

There are two kinds of direct loans: subsidized and unsubsidized. If you have eligibility for the subsidized loan, the government will pay the interest on that loan as long as you are enrolled at half-time status (a minimum of 5 hours per semester). This is a need-based loan based on FAFSA data.

For the unsubsidized loan, you will be requested to make quarterly interest payments on that loan while you are enrolled, regardless of your enrollment status. If you choose not to pay the interest, the loan will be capitalized (i.e., the interest will be added to the principal of your loan). Depending on the calculated cost of attendance, as well as grants, private scholarships, and tuition waivers you are awarded, you may be able to borrow up to \$8,500 per academic year. This amount could be all subsidized or unsubsidized, or a combination of the two loans.

As an independent graduate student, you may also opt to borrow additional unsubsidized loan to meet the cost of attendance. The total amount of financial aid cannot exceed the cost of attendance. The loan(s) limit for an academic year is \$18,500. If you borrow a total of \$18,500 for the fall and spring semesters, you will not have any loan eligibility for the summer session. The maximum aggregate (total of all loans received as a graduate AND undergraduate student, but excluding Perkins Loan) is \$138,500.

Since all graduate students are considered as independent students, your parents are not eligible to apply for the Parent Loan for Undergraduate Students (PLUS).

If you are classified as a graduate student-at-large, the loan appeal process must be completed in the Financial Aid office to receive loan proceeds. **This appeal is not granted automatically.** If your loan appeal is granted, you will be eligible for a subsidized an/or unsubsidized loan, depending on your FAFSA data. **Your appeal for loans is granted for up to one, continuous 12-month period of enrollment.**



**Loan Counseling:** All first-time borrowers at Illinois State are required to attend entrance loan counseling before your loan proceeds are released to Student Accounts. You may meet this requirement through a link from the Financial Aid Office Web site, [www.fao.ilstu.edu](http://www.fao.ilstu.edu).

If you attended entrance counseling at another school, you must sign a waiver from the Financial Aid Office verifying that you previously met the requirement. The purpose of entrance counseling is to emphasize your responsibilities and rights as a student loan recipient.

After your loan is processed, you will receive your award letter and the promissory note for your loan. Read the note carefully. This loan has a variable interest rate, depending on the 91-day Treasury bill. The interest is capped at 8.25 percent, which is adjusted annually.

**Check Distribution Information: The Student Accounts Office will mail checks for aid in excess of amounts owed the University throughout the academic year.** Students should be prepared to buy books and have "start up" funds at the beginning of each semester.

Before any loan proceeds will be credited to your account, you must return a signed copy of your award letter and completed promissory note to the Financial Aid Office.

Keeping your local and permanent address information current with the Registration Office or on SIAS is very important. The SIAS screen is a link from the Financial Aid Office Web site, [www.fao.ilstu.edu](http://www.fao.ilstu.edu). Numerous university offices use this information to contact you. Specifically, the Student Accounts Office will use this information when sending refund checks to you.

**Exit Information:** Before you graduate or if your enrollment drops below five hours per semester, you will be sent information concerning exit loan counseling, which outlines loan repayment, consolidation, and deferment options. You may also get this information from the Exit Counseling link from the Financial Aid Office Web site, [www.fao.ilstu.edu](http://www.fao.ilstu.edu).

You will begin loan repayment six months after your graduate or drop below half-time status (five hours per semester).

## Employment

**Drug-Free Workplace Policy:** In response to and in compliance with the federal Drug-Free Workplace Act of 1988, Illinois State University reaffirms its commitment to prevent and prohibit the use abuse of controlled substances on the campus or within facilities owned, operated, or controlled by the University. The following statement shall be considered a University policy applicable to all employees: the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is strictly prohibited upon any property owned, operated, or controlled by Illinois State University. Violators will be subject to University disciplinary action consistent with existing University policies, rules, regulations, and employment agreements.

### Resolution Regarding Graduate Scholars, Fellows, Trainees, and Assistants

In 1965, the Council of Graduate Schools (CGS) approved the following resolution regarding offers of financial assistance such as assistantships. This resolution has been widely endorsed by universities across the country, including Illinois State. Questions regarding the application of this resolution should be addressed to the Graduate School.

Acceptance of an offer of financial support (such as a graduate scholarship, fellowship, traineeship, or assistantship) for the next academic year by a prospective or enrolled graduate student completes an agreement that both student and graduate school expect to honor. In that context, the conditions affecting such offers and their acceptance must be defined carefully and understood by all parties.

Students are under no obligation to respond to offers of financial support prior to April 15; earlier deadlines for acceptance of such offers violate the intent of this Resolution. In those instances in which a student accepts an offer before April 15, and subsequently desires to withdraw that acceptance, the student may submit in writing a resignation of the appointment at any time through April 15. However, an acceptance given or left in force after April 15 commits the student not accept another offer without first obtaining a written release from the institution to which a commitment has been made. Similarly, an offer by an institution after April 15 is conditional on presentation by the student of the written release from any previously accepted offer. It is further agreed by the institutions and organization subscribing to the above Resolution that a copy of this Resolution should accompany every scholarship, fellowship, traineeship, and assistantship offer.

**Graduate Assistantships:** Graduate assistantships are provided as financial support for selected graduate students. They are intended to facilitate progress towards a graduate degree. Therefore such factors as satisfactory academic progress and time to degree are considerations for retaining assistantships. Approximately one-third of all Illinois State graduate students have assistantship support. Graduate assistantships are available in most of the University departments. In addition, assistantships are available to men and women who serve as counselors in the University residence halls. In each instance, the graduate assistant is assigned responsibilities that contribute directly to the individual's professional career. Students must be admitted to a specific graduate degree program to be awarded an assistantship. The academic requirements for a graduate student assistantship require a B average for the last 60 semester hours of undergraduate work or a GRE score of 1000 on the combined verbal and quantitative sections for appointment for master's degree students. Students applying for assistantships for the first time after having taken graduate courses must have a minimum 3.0 graduate GPA based on a minimum of nine (9) graduate semester hours. Students-at-large are not eligible for assistantships. Graduate assistants who provide classroom instruction must have their oral English language proficiency certified by the Department Chairperson prior to beginning their duties. Graduate assistants on full assistantships requiring 20 hours of work each week may not be employed in any other capacity by Illinois State. Depending on the nature of the assignment, a full-time position requiring less than 20 hours may be appropriate, but should not be less than 11 hours. Those graduate students with less than 20 hours per week may work additional hours on campus as student employees but the total employment cannot exceed 20 hours per week. Applications can first be made to the student's departmental office.

A graduate assistant should maintain at least a 3.0 each term and must maintain a 3.0 cumulative average in order to continue to keep his/her assistantship. If a graduate assistant's semester GPA falls below 3.0 but their cumulative GPA remains at 3.0 or higher, departments should consider whether continuation of the assistantship will interfere with the graduate assistant's future academic progress in the degree program.

The registration fees for a graduate assistant are the same as fees assessed for any other graduate student; the insurance fee is assessed for each graduate assistant with a tuition waiver and at least one registered credit hour. Graduate assistants also receive a tuition waiver fellowship in recognition of their academic achievement. Students who do not meet the academic requirements for this tuition waiver are not eligible to hold a graduate assistantship, but may work as regular student employees.

Graduate Assistants NOT automatically charged for on-campus clinic and major medical health and accident policy are those who register for audit hours only (e.g. thesis/dissertation 499.01/599.01) or those whose assistantships and tuition waivers are processed AFTER the fifteenth calendar day of the term (eighth day summer). Graduate students who are registered for audit hours only or whose assistantship paperwork was "late" should DIRECTLY PAY for insurance in the Student Insurance Office, 230 SSB, or arrange payment by mail (call 438-2515). Deadline to purchase student insurance is the fifteenth calendar day of the term (eighth day summer). If the audit-only semester is in the fall, the student needs to have paid premiums for summer student insurance.

For additional information, see the Graduate Assistant Handbook ([www.grad.ilstu.edu](http://www.grad.ilstu.edu)) and [www.jobs.ilstu.edu](http://www.jobs.ilstu.edu).

**Federal Work-Study Program (FWS):** This federally-sponsored program enables students with demonstrated financial need to earn a portion of their expenses while they are enrolled at Illinois State. At present, only graduate assistants in certain university departments are awarded federal work study.

**Regular Student Employment:** Graduate students who desire to work on or off campus may use the Student Employment Job Board from a link at [www.ilstu.edu](http://www.ilstu.edu). In addition, students may contact Student and Alumni Placement Services in the Student Services Building on campus.

**Immigration Reform and Control Act of 1986:** It is the policy of Illinois State University to comply with the Immigration Reform and Control Act of 1986. Therefore, all employees must furnish documentation prior to employment to establish both their employment authorization and identity. All employment is contingent upon a review and verification of such documents.

## Veterans Services

The Office of Veteran Affairs, located on the first floor of Moulton Hall, advises veterans and dependents on matters relating to educational benefits and also handles the correction of payment problems. Certain dependents of deceased war veterans may be entitled to educational benefits from the Veterans Administration. If a student seeks such benefits, the Office of Veterans Affairs should be contacted.

**Withdrawal from All Courses:** Should you need to withdraw from all courses (withdrawal from the University), you need to provide the Registration Office a written notice that you intend to withdraw. The date you provide written notice is considered your withdrawal date. Your withdrawal date will be used in the calculation of repayments or refunds.

## Repayments and Refunds

If you officially withdraw from Illinois State, you may receive a reduction of tuition, fees, and room and board charges, according to the University's refund policy. This policy is found in semester class registration directories, under the Withdrawal Policy Refund section.

If you received any Title IV aid funds, including loans, the credit balance will be used to restore funds to appropriate programs. If you did not receive any Title IV funds, the credit balance will be restored or refunded.

Regardless of the amount of repayment or refund, if you withdraw from a class at any point in the semester, you may violate the Satisfactory Progress Policy and become ineligible to receive future aid, including loans.

The Student Accounts office will assist you with your repayment or refund concerns.

**Return of "Unearned" Title IV AID:** When you do not complete a period of enrollment, you are eligible **only** for the amount of Title VI aid in proportion to the time of enrollment. The Financial Aid Office must determine the amount of Title IV you did not earn and return those funds to the appropriate programs. This may cause you to repay Title IV aid.

## Confidentiality and the Release of Information

The Financial Aid Office will release information about the financial status of a student to those parties within the University if it is related to your attendance at Illinois State. Inquiries from off-campus agencies and/or landlords will be answered by Financial Aid Office staff only if you have completed a "Consent to Release Information" form from the Financial Aid Office.

To protect the confidentiality of your records, the Financial Aid Office will require proper identification from the requesting party before releasing any of your information. A documentation notice will also be placed in your financial aid file.

## Satisfactory Academic Progress

In accordance with the Higher Education Act of 1965, Illinois State requires that students receiving Title IV aid, including loans, must maintain satisfactory academic progress.

To comply with the Satisfactory Academic Progress Policy, you must fulfill three components:

1. Qualitative - You must complete at least **75 percent of the total hours attempted at your degree level**. Undergraduate hours are not included in this calculation. Grades of WX, WP, WF, W or Incomplete are calculated in this equation.
2. Quantitative - Your financial aid eligibility is terminated when completing 50 hours of coursework at the master's level, or 75 hours for the doctoral degree.
3. Grades - You must meet university, departmental, and program requirements concerning academic standing, grades, and grade point average.

If you are not successful in making satisfactory academic progress, you will be notified by the Financial Aid Office. In order to reinstate your aid, you must file an appeal to the Financial Aid Office.

Depending on the information provided on your appeal, the Financial Aid office and the Graduate School will determine if your financial aid can be reinstated. **The appeal is not automatically granted.**

The deadline for filing the Satisfactory Progress Appeal is the tenth day of the semester, which follows the posting of your grades.

You may obtain a copy of the Satisfactory Academic Progress Policy from the Financial Aid office, or from the Web site link at [www.fao.ilstu.edu](http://www.fao.ilstu.edu).

## Student Life and Services

**University Policy Manual:** The University Policy Manual contains University policies and procedures including those approved by the Academic Senate. Also included are operational policies, the Code of Ethics, resolutions, statements and special committees. Copies are available in departmental offices.

**Student Handbook:** The Student Handbook is made available to all new and continuing students at Illinois State University. Contained within The Student Handbook are descriptions of activities and services available to students as well as policies and regulations which are important for students to know and understand. The Handbook enumerates student rights and responsibilities within the University community.

**Disability Concerns:** Disability Concerns, a unit of the Student Affairs Division, is the office that is designated to provide approved accommodation services to students, faculty, staff, and visitors with disabilities.

The mission of Disability Concerns is to ensure full and equal participation for persons with disabilities in the Illinois State University community through:

- empowering individuals,
- promoting equal access,
- encouraging self-advocacy,
- reducing attitudinal, physical, and communications barriers, and
- providing appropriate accommodations.

Disability Concerns provides accommodation services that support people with disabilities in:

- the realization of academic goals,
- reaching professional goals, and
- becoming contributing members of society and lifelong learners.

To receive services from Disability Concerns, appropriate medical/psychoeducational documentation must be provided. Upon receipt of the documentation, the case coordinator works with the student, faculty, or staff on a case-by-case basis to determine the impact of the disability and the appropriate accommodation(s). Disability Concerns offers a variety of services to accommodate persons with disabilities. Accommodations provided may include, but are not limited to, testing accommodations, sign language interpreters, readers, scribes, notetakers, assistive technologies and materials in alternative formats.

Disability Concerns provides many of its services through a volunteer model. This is promoted to diminish attitudinal barriers and to promote understanding and respect for persons with disabilities. All students, faculty, staff, and alumni of the University are encouraged to volunteer their time and talents. This volunteer program offers the opportunity to obtain volunteer hours, develop experience to enhance a resume, and, perhaps most importantly, develop skills that encourage and promote diversity. Persons interested in providing volunteer assistance should inquire at Disability Concerns.

Disability Concerns, 350 Fell Hall, (309) 438-5853 voice, (309) 438-8620 TDD, or (309) 438-7713 facsimile, Web site [www.ilstu.edu/depts/disabilityconcerns](http://www.ilstu.edu/depts/disabilityconcerns), e-mail [ableisu@ilstu.edu](mailto:ableisu@ilstu.edu).

**Student Dispute Resolution Services:** Student Dispute Resolution Services (SDRS, 202 Fell Hall) coordinates the University's student disciplinary, grievance, and conflict resolution processes. Student disciplinary matters are reviewed

both by administrative staff and by the University Hearing Panel, while student grievances against faculty and staff are reviewed by the Student Grievance Committee. Appeals of both processes are reviewed by the Student Code Enforcement and Review Board (SCERB).

For students engaged in conflicts with other members of the community, alternative dispute resolution services are also provided. Mediation is available in many cases where the parties agree to attempt to develop a solution to satisfy both/all parties. Both student and administrative staff have been appropriately trained to serve as mediators at Illinois State University. Other forms of dispute resolution, such as facilitation and negotiation, are available as deemed appropriate.

For more information on any of these services, contact SDRS at (309) 438-8621 or visit our Web site at [www.ilstu.edu/depts/SDRS](http://www.ilstu.edu/depts/SDRS). Copies of the Student Handbook, which outlines the disciplinary, grievance, and appeals processes, are available through the Office of Student Life.

**Child Care Center:** Open only to students, Illinois State Child Care Center offers high quality, affordable child care services to children 2-8 years of age. It is open during the fall, spring and summer semesters. Hours are 7:30 a.m. to 5 p.m. during the fall and spring; 7:15 a.m. to 4:45 p.m. during the summer. The center is licensed for 40 children at a time with care provided in 124 Turner and 105 Fairchild. Call (309) 438-5026 for an application or visit 124 Turner Hall and ask for the Director.

**Campus Transportation:** The Bloomington/Normal Transit Authority provides public bus transportation during the day in areas around the Twin Cities, including the campus community. Nite Ride, an evening bus service, is contracted by the student body and paid for by student fees. The Transit Authority operates the service from 7 p.m. to 1 a.m. on days when classes are in session. Routes will take students to major student population areas, selected shopping malls, and throughout campus.

**Bone Student Center/Braden Auditorium:** Bone Student Center provides facilities, programs and services, primarily for students, which complement the educational goals of the University. Included within the Center are: McDonald's, Pizza Hut, and other restaurants; the bookstore, Lobby Shop, and other merchandise centers; E-mail Express, ID Card Office, Concierge Desk, InfoCentre, photocopying, bus and event ticket sales, automatic teller machines and check cashing, lounge areas and multi-purpose rooms for student activities, and other programs. Adjacent to the Center are a Bowling and Billiard Center and a 500-space parking lot. Braden Auditorium seats 3,457 on three levels. It is an academic and public service facility and the entertainment center for the University and the community.

**Office of Intercultural Programs and Services:** The Illinois State University Office of Intercultural Programs and Services is part of the Division of Student Affairs. The mission of the Office is to raise cultural awareness in all students, faculty, and staff and to facilitate a supportive environment for underrepresented populations. The Office sponsors a wide variety of programs, including the traditional theme celebrations, and year-long programming for African Americans, Asian Americans, Gay, Lesbian, Bisexual and Transgender cultures, Latinos/Latinas, Native Americans, and women in conjunction with MECCPAC (Multi Ethnic Cultural Co-curricular Programming Advisory Committee). The Office plays a role in developing student recruitment and retention programs and collaborates with faculty and academic departments to enhance in and out of classroom experiences.

The **Center for Intercultural Relations** is a component of the Office of Intercultural Programs and Services and is designed as a place for the entire University community to use. It offers two conference rooms that can be reserved for meetings, seminars, or other gatherings, a library with a growing collection of multicultural resource materials and a relaxed atmosphere for studying and meeting friends. Any student or University personnel requiring help or information about available services is encouraged to contact the Director of the Office of Intercultural Programs and Services (309/438-8968, 305 N. School Street, [www.ilstu.edu/depts/multicultur/](http://www.ilstu.edu/depts/multicultur/)).

**Counseling Services:** A full range of counseling services, including personal and career counseling, group counseling, workshops, and crisis intervention are provided to students on a voluntary, confidential, and no-fee basis. The Center is also involved in the training of undergraduate and graduate students. All services are provided in a way which supports cultural and racial diversity and which fosters an environment which respects individual and group differences. (Located in the Student Services Building; 309/438-3655.)

**Parent Services:** Parents and family members who need assistance can contact the Office of Parent Services. This agency develops programs (e.g. Family Weekend) and materials which promote family involvement in the University and its educational mission as well as providing information about University resources. The Parents Association Advisory Board, composed of parents representing various geographic locations, works with the Office of Parent Services as a liaison between family members and the University. (Located in 387 Student Services Building, 309/438-3753.)

### Recreation Services and University Golf Course

**Student Recreation Building, Beech and Willow, (309) 438-PLAY**  
**The OUTDOOR Store, 220 N. Main, (309) 438-8419**  
**University Golf Course, Gregory Street, (309) 438-8065**

Recreation Services and University Golf Course encourages personal enrichment by providing a variety of leisure experiences and recreational opportunities. For semester program information consult the department's *RecInfo Guide* published to provide a comprehensive guide to the many services, programs, facilities, and events provided by the department, or check out our Web pages at [www.rec.ilstu.edu](http://www.rec.ilstu.edu).

The department operates three facilities; the Student Recreation Building features open recreation areas for racquetball, basketball, walk/jog, sand volleyball, a juice bar, and locker rooms. In addition, the Weights Plus program, consisting of cardiovascular, circuit training, and free weight equipment, operates in this facility. Student memberships for Weights Plus are available for purchase and can be combined with the Group Fitness Pass. The department's administrative offices are located on the second level of the building.

The University Golf Course is a par 71, 18-hole course. The recently renovated Golf Course features a new irrigation system, rebuilt greens with bent grass fairways and tees, along with a fully stocked pro shop, snack bar, cart and club rentals. Student daily, semester, and season passes are available.

The Outdoor Adventure Center houses the OUTDOOR Store equipment rental which offers a wide assortment of outdoor equipment with discounted rental rates to Illinois State University students. The Outdoor Adventure Library is located in this facility.

In addition, the department offers programs of Group Fitness providing a variety of aerobic classes with student memberships available for purchase; Gym and Swim in McCormick

hall provides on-campus recreational activities with only a valid Illinois State University ID; RecSports has an action-packed intramural sports schedule; Adventure Trips provides opportunities to canoe, camp, raft, and more; Leisure U. offers non-credit classes for skydiving, pottery, yoga, swing dance, and more; and Environmental Discovery presentations on world health.

For more opportunities, the department offers student employment positions in a variety of programs and has advisory committees that meet throughout the year. Members of the advisory committees work with the unit to provide the best in programs and services. New members are welcome.

### Student and Alumni Placement Services

Student and Alumni Placement Services is a valuable resource for students, alumni, employers, and faculty. Located in the Student Services Building, 309-438-2200. Our [www.eRecruiting.com](http://www.eRecruiting.com) is an interactive site for students and employers.

**Career Resources Center:** Located in Student Services Building 185, the Center provides students with resources and information related to any stage of their career process (e.g. assessing career interests and abilities, student employment, clarifying career direction, internship opportunities, videotaped practice employment interviews, resume assistance, information about various on-campus career fairs, graduate and professional school information, registration for on-campus career fairs and on-campus interviewing.)

**Professional Practice:** The nationally recognized Professional Practice Program offers academically qualified students an opportunity to integrate classroom study with one or more terms of learning experience in a work environment related to the student's academic and career goals. All graduate internships, assistantships, fellowships, and other Professional Practice placements are developed and approved through the academic departments.

**Placement Services** provides individual job-search assistance, programs and presentations, computerized resume referral to employers, job listings, on-campus interviewing, and employer outreach. We offer several career events throughout the academic year to facilitate students meeting with employers from business, industry, government, education, and non-profit agencies. Placement files containing letters of recommendation are maintained and distributed by request to employers.

Student Employment targets on- and off-campus part-time employment opportunities, e.g. administrative assistants, para-professional positions, on-campus graduate assistantships, along with a wide array of other part-time employment vacancies.

### Other University Services

**University Research Office:** The University Research Office (URO) provides centralized support for faculty, staff, and students who apply for and receive external funding for instructional, research, public service, or creative activities. The URO provides technical expertise and institutional management oversight for these projects and is the designated institutional liaison with federal, state, and private funding sources. The office also handles many of the legal and regulatory aspects of externally sponsored projects. The URO is responsible for submission of sponsored projects proposals, contract negotiation and acceptance, and institutional compliance with state and federal rules and regulations related to sponsored project activities. Most importantly, signature

authority for all signatures for externally sponsored grants and contracts must be obtained from the URO.

**Microcomputer Laboratories:** Microcomputers for doing work outside of class for writing papers are available to students in microcomputer labs at various locations on the campus. Students can use PC (IBM compatible) and Apple Macintosh computers to engage in word processing, graphics, spreadsheets, database management, and instructional programming. All labs are networked to both Illinois State University resources and the Internet. Tools such as email, World Wide Web browsers, and telnet programs are available.

A number of the larger microcomputer facilities are called "general purpose" labs and are available to all students holding a valid Illinois State University identification card. A tuition technology fee is used in part to support these services. General purpose labs have both PC and Macintosh workstations and are located in:

- Milner Library 213B (110 Microcomputers)  
Open 24 hours a day (145 hours weekly)
- Stevenson Hall 250 (191 Microcomputers)

Twenty-seven other specialized microcomputing labs, containing almost 1000 microcomputers, associated with specific academic departments are also available. Access may be restricted to times when the facility is not being used for classes or students enrolled in computer-intensive courses.

**Remote Computer Access:** Facilities are available for accessing ISUNet and the Internet via a modem hooked to a personal computer from the residence halls and those residing off campus. Software is distributed by User Services which provides for email, World Wide Web browsing, library catalog and database searching, and for connecting to remote machines. This service utilizes the fastest possible analog modems for high speed access from phone lines.

**Internet Appropriate Use Policy:** When faculty, staff, or students wish to obtain a University UNIX account, he/she agrees to abide by the policies as set forth by the University. These policies, procedures, and guidelines can be found on the World Wide Web at the University's Web page ([www.ilstu.edu](http://www.ilstu.edu)) in the section titled, *About the University*.

Please note that any member of the University community can lose their UNIX account after repeated or extreme violations of the Appropriate Use Policy. Some courses may require usage of a UNIX account. Therefore, the loss of an account may prevent a student from completing their course work.

## University Advancement

**Alumni Services:** Alumni traditions were begun in 1863 with the first Alumni Association meeting. Alumni Services now offers activities and assistance to all Illinois State University alumni and coordinates all programs of the 145,000 member Alumni Association. All graduates are automatic members of the Alumni Association; no dues are required to join. With offices in the Bone Student Center and on Michigan Avenue in Chicago, Alumni Services' primary goal is to act as liaison between the University and its alumni locally, nationally, and throughout the world.

Together with the Illinois State Alumni Association, Alumni Services staff provide the campus community assistance in staying connected to graduates and building pride in students currently enrolled. The office assists in meeting the changing needs of alumni, planning outreach activities that keep alumni connected, and nurturing a lifelong bond between the

University and its graduates through programs like:  
*Illinois State*, the quarterly alumni magazine  
 Geographic chapters  
 Reunions, Homecoming, special events  
 Travel programs  
 Credit cards  
 Insurance opportunities  
 Awards recognizing alumni and students  
 Alumni records and directory services

Current students have the opportunity to become involved through the Student Alumni Council (SAC), a registered student organization with headquarters in the Alumni Services office in Bone Student Center, (309) 438-2586. SAC is open to all students and serves to link Illinois State University's past, present, and future. Members of the organization are active in many campus events and help to promote University pride.

**Development Office:** The Executive Director of Development and development staff are located in 401 Hovey Hall. The Office of Development is responsible for coordinating long-range programs to encourage private giving from the broad range of the University's constituencies, i.e., alumni, parents, students, faculty and staff, friends and corporations and foundations. The financial support generated through private giving provides the margin of excellence for Illinois State by providing resources for scholarships, faculty rewards, departmental programming, facilities and equipment and endowments. The Development Office is also responsible for coordinating the comprehensive campaign being undertaken by the University. Further information can be obtained by calling (309) 438-8184.

The Advancement Services arm of Development is located in Rambo House and provides support related to alumni and development programs and activities, including maintenance of the Alumni-Development Information Network (ADIN), donor relations and stewardship services, and the management of a major donor club plan.

**Illinois State University Foundation:** The Illinois State University Foundation is a not-for-profit corporation chartered by the State of Illinois for the sole purpose of soliciting, receiving, holding, investing, and administering gifts, grants, real property, historical papers, collections, and other materials which support and enhance educational opportunities at Illinois State University. It also supports an office in Chicago and Ewing Cultural Center in Bloomington.

Unrestricted gifts enable the University to achieve a higher level of quality because these resources can be distributed where the need is greatest. However, gifts and grants may be designated to support specific colleges, departments, and educational programs.

Bequests, charitable remainder trusts, and other planned and deferred gifts are also processed through the Foundation. Policies for the Illinois State University Foundation are overseen by an elected Board of Directors, comprised of alumni and friends of the University.

All gifts made to the Illinois State Foundation are tax deductible as provided by law. Further information about the Foundation may be obtained by contacting the Vice President for Institutional Advancement or the Foundation financial coordinators in Rambo House, (309) 438-2294.

**University Marketing and Communications:** University Communications is charged with enhancing the University's image through marketing, advertising, and licensing consultation; publications and periodical planning; and video production. University Communications provides the Illinois State community the following services:

- Assistance from concept to delivery of print and electronic communications, including story idea development and feature writing, copyediting, art direction and design, photography, management of production needs, and vendor purchasing agreements.

- Assistance with questions about licensing issues, including use of the institution's name and all associated nicknames, abbreviations, logos, slogans, and other identifying symbols; identification of licensed vendors; approval of designs using university marks; license applications; merchandise quality and risk appraisal; and licensee and retailer audits/compliance reviews.

- Assistance from concept to delivery of promotional, historical, recruitment, and fund-raising videos produced each year, including scriptwriting and oversight of production.

- Assistance with the planning of special projects, development campaigns, and events that encompass the entire campus community as well as the general public. Examples include publicity and program pieces for each of the University's yearlong theme series and campus-wide events such as Homecoming and Founders Day. Advertising services range from creating a monthly cultural calendar for publication in the *The Pantagraph* as a means to promote campus events to the general public to handling all components of a targeted campaign to advance the University's image.

- Oversight of the institution's marketing efforts, including planning and production of marketing materials needed for a program or by a department, creation of campus plaques and banners, and creation of special marketing pieces designed to enhance the general public's knowledge of the University.

University Marketing and Communications operates an in-plant print shop specializing in one-, two-, and full-color offset printing. Printing Services offers campus clients the following:

- Services: Typesetting and image setting, film preparation, printing, folding, cutting, numbering, padding, drilling, binding, and envelope insertion.

- Rapid Print Centers: In addition to the in-plant print shop, University Marketing and Communications oversees Rapid Print Centers in DeGarmo Hall and the Old Union Building. These centers offer campus clients quick reproduction of publications for academic, administrative, and personal use.

- Copier Program: University Communications manages the campus copier program. Through a contractual agreement with Xerox Business Services, University Marketing and Communications has oversight of copiers in offices across the campus. The program offers training services, troubleshooting, ordering and delivering supplies, and regular meter reads.

For more information, contact:

University Marketing and Communications  
Campus Box 3420  
Normal IL 61790-3420  
Main office telephone: (309) 438-8404  
Main office Facsimile: (309) 438-8411

Printing Services: (309) 438-3647  
Printing Services facsimile: (309) 438-3776

#### Rapid Print

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**Media Relations/News Service:** The Media Relations/News Service office, located in Hovey Hall, produces and distributes information about Illinois State University to the news media and to faculty and staff. Media Relations/News Service acts as a liaison with reporters and assignment editors, plans news conferences and coordinates external communication to the news media.

The Media Relations/News Service prepares news releases and stories featuring the faculty, staff, students and programs at the University. The office also publishes *Report*, a weekly newsletter for faculty and staff. The Media Relations/News Service matches reporters with faculty and staff experts on a vast spectrum of subjects through the News Service *Resource Guide Book* and through Profnet, a public relations tool on the Internet.

The Illinois State Hotline (309/438-8371) provides anyone with a telephone a quick source of information about important news at Illinois State University. The messages are updated frequently and contain information about upcoming events and news headlines for the campus community.

Using faculty and staff experts, the Illinois State Radio Service provides broadcast quality stories to more than 125 radio stations in Illinois, Wisconsin, Iowa and Missouri. Radio stations use a toll-free number to access the service, which is updated each week.

Media Relations/News Service also offers an on-line page on the World Wide Web that includes news releases; *Report*; and *Access*, a guide to using the services of Media Relations/News Service. The Web address is [www.mediarelations.ilstu.edu](http://www.mediarelations.ilstu.edu).

**University Events:** Institutional Advancement's event staff provides an event management service to campus for planning and coordinating events associated with building constituent relationships, raising private funds, and enhancing the image of the University. Staff are available to help units and departments design and coordinate events that will improve university outreach initiatives consistent with institutional priorities and the goals of the Division of Institutional Advancement and the University.

The staff also plan and facilitate traditional university events and other events hosted by the University president, including Homecoming; the Founders Day convocation and other heritage celebrations; the State of the University Address; all building groundbreakings and dedications; cultivation events involving alumni, other donors, and prospective donors; recognition of faculty, staff, and major donors; and events hosting visiting dignitaries.

# ADMISSION

## Admission Requirements

Admission requirements for the Master's, Specialists, Certificates, Master of Fine Arts, Doctor of Philosophy and Doctor of Education are given elsewhere in this catalog under the heading *Fields of Study and Degrees Granted*. Also, see the department sections.

**Eligibility:** A student who has completed work for a bachelor's degree or its equivalent, as determined by the Graduate School, or who will do so within one academic year at a college or university that is accredited by the appropriate regional accrediting association, may apply for admission to the Graduate School. While admission may be granted to a senior, only those who have received a bachelor's degree will be permitted to register in a degree program. However, seniors may be permitted to begin graduate work if they meet the conditions of the Seniors Taking Graduate Courses for Graduate Credit Policy. See section on *Admission to Master's Programs*.

**Applications and Credentials:** Each prospective student who wishes to take work for graduate credit must submit a completed Graduate Admission Application. Previous or continuing students at this University, students new to the University, and those enrolled in extension courses must file an application when beginning a program. In addition to the application, the following items are required:

1. Two official transcripts from each college or university other than Illinois State University at which graduate, undergraduate, or non-degree credit was earned. Individual departments may have the option of requiring transcripts for only the last 60 undergraduate hours used in computing the admission grade point average. The required documents should be received in the Admissions Office at least four weeks before the date of registration. Departments or Colleges may have additional requirements.
2. GRE (Graduate Record Examination) General Test score report, for admission to many master's and all doctoral programs. Nursing requires the GRE writing assessment.
3. GMAT (General Management Admission Test) score report, for admission to College of Business graduate programs.
4. Three recommendations for each doctoral and Art MFA applicant. Some master's degree programs may require recommendations also. Letters of recommendation should be sent to departments.
5. Applicants are required to submit a nonrefundable application processing fee that must be submitted with the application. Former Illinois State University graduate students applying to the same level are exempt from the fee. Under certain circumstances, applicants may be eligible for a waiver of the application fee; additional information about fee waivers may be obtained from the Office of Admissions. International students are not eligible for fee waivers. The application fee is waived for McNair Scholars and Project 1000 applications. Please note on the application if you are a McNair Scholar or with Project 1000.

Two months should be considered the minimum period of time between filing of application and registration for classes. However, some departments do have specific dates when all materials must be on file. Application forms and instructions are available from the Office of Admissions, Hovey Hall 201 or may be downloaded from [www.ilstu.edu/depts/admissions](http://www.ilstu.edu/depts/admissions).

**Immunization/Medical Requirements:** All students admitted to Illinois State University are required, by Public Act 85-1315, to provide proof of immunity for tetanus, diphtheria, measles, mumps and rubella. **Documentation of immunity must be complete and on file in the Student Health Service by the 15th calendar day of the entering semester.** Proof of immunity must include a tetanus/diphtheria booster within 10 years of attendance at ISU; two measles immunizations, both after one year of age and after December 31, 1968; one mumps immunization after one year of age and after December 31, 1967; one rubella immunization after one year of age and after December 31, 1968. **All immunization dates must be signed/certified by a physician or public health official.** Immunization dates and certification can be documented on the Health History Report that is also required to be on file with the Student Health Service. Please note, that a physical examination is not required. International students are required by University regulations to have a TB skin test within 10 days of their arrival on campus. The Student Health Service **strongly recommends that all students have a TB -mantoux skin test within the year** prior to first attending the University; and **strongly encourages immunization against Hepatitis B** which is a series of three injections.

Information and instructions for meeting the above requirements are included with the Illinois State University Health History Report Form which is mailed to all incoming students. The Student Health Service recommends completion of the immunization information as soon as possible and no later than the first day of the month in which classes begin. Students not in compliance with the immunization requirements by the 15th calendar day of their entering semester will have subsequent semester registrations blocked and be assessed an administrative compliance fee. Further information can be obtained by calling the Student Health Service Preventive Medicine Clinic at 309-438-8560.

**Readmission of Former Students:** Graduate students who wish to return to the University after a lapse in **registration** of one calendar year or more should apply for readmission through the Admissions Office. Students who are NOT in good academic standing and who have NOT maintained continuous enrollment (excluding summer terms), and who wish to return to the university are required to apply for readmission as students on academic probation. Those students with less than a one calendar year lapse may register for classes without completing a readmission application.

Students whose time limit for completion of degree has expired must submit with the readmission application a request to extend time. The form may be obtained from the Graduate School.

Graduate students who were previously admitted but **never registered** may contact the Admissions Office requesting that their original application be updated. The request for updating the application must be submitted in writing to the Admissions Office. After a period of one year, however, a new application is required. Students may request a new degree program on their readmission application. (Note: International students must contact International Admissions with any lapse in attendance.)

**International Student Admission:** International students may apply for either the fall or spring semesters or for the summer term. The University operates on a semester basis (16 weeks), a fall semester which begins the middle of

August and a spring semester which begins in early January. In addition, the University offers a twelve-week summer term which begins in the middle of May.

International applications for the fall and spring semesters will be accepted as early as one year ahead but no later than three months before the term begins. The closing date for fall applications is May 1; for spring applications, October 1. Some departments have earlier deadlines and some offer fall semester-only admission. Summer applications will be accepted up to April 1, six weeks before the starting date. Applicants are required to submit a nonrefundable and nonwaivable application processing fee that must be submitted with the application.

An international student holding the equivalent of a U.S. baccalaureate degree, as determined by the Graduate School, from a recognized international institution of college or university level, may apply for admission. The admission of international students is governed by separate requirements, as outlined below.

An international student whose native language is not English is required to submit scores on the Test of English as a Foreign Language (TOEFL). No decision will be made on a student application until official test results have been received from Educational Testing Service (ETS). Individual departments MAY establish a policy, subject to approval by the Graduate School, to waive the TOEFL requirement for students who have graduated or will be graduating from an accredited college or university in the United States, if the student has resided in the U.S. for at least one year at the time of admission.

The minimum TOEFL score required for international graduate admission is 550 for pencil/paper tests and 213 for computer-based tests. Departments may require higher scores at their discretion. Any department may, because of the nature of study in the department, screen students with lower scores. Those recommended for admission with scores lower than the minimum must be approved by the Graduate School.

Students anticipating a teaching assistantship should submit scores on the Test of Spoken English. The minimum TSE score is 220 old version, 50 new version. The TSE is administered in countries outside of the United States several times a year. There is a local test of the TSE called the SPEAK which is administered on campus. If TSE is not taken before arriving in the United States, the SPEAK can be taken upon arrival. However, since the testing is administered shortly before the beginning of the semester, the university cannot insure that the scores would be available by the beginning of the semester, and therefore, there is no assurance that a teaching assignment can be offered the first semester on campus. It is recommended that applicants take the TSE in their native country to provide information to the department well in advance.

For more information on acquiring English language proficiency, see Intensive English Program under General Information.

In addition to the admission application, TOEFL, and materials listed above for U.S. applicants, international students seeking an F-1 visa must submit a declaration of finances showing source of support and official documentation of funds available for the first year's expenses.

All items except one transcript in the native language must be in English. Upon receipt of the required materials, the Office of Admissions will submit the file to the major department for a decision. Admissions will send the Certificate of Eligibility for Nonimmigrant (F-1) Student Status with a notification of acceptance.

The Bulletin of Information for TOEFL and TSE and registration forms can be obtained in a number of cities outside the United States, usually at American embassies and consulates, offices of the United States Information Service (USIS), United States educational commissions and foundations, bi-national centers, and many private organizations such as the Institute of International Education (IIE), the African-American Institute (AAI), American-Mideast Educational and Training Services (AMIDEAST), and the American-Korean Foundation. If a bulletin can not be obtained locally, write to TOEFL/TSE Services, P.O. Box 6151, Princeton, New Jersey, 08541-6151, U.S.A. or ETS at [www.ets.org/body.html](http://www.ets.org/body.html).

Information regarding test dates and application forms for the GRE (Graduate Record Examination) or the GMAT (Graduate Management Admissions Test) can be obtained from the following U.S.A. centers: 1) Graduate Record Examination, Educational Testing Service, P.O. Box 6000, Princeton, New Jersey 08541-6000; 2) Graduate Management Admission Test, Educational Testing Service, P.O. Box 6103, Princeton, NJ 08541-6103. Scores must be sent directly by ETS to Illinois State University.

For assistance with admissions, transfer credits and academic standing, please address all inquires to: Illinois State University, International Admissions, Office of Admissions, Campus Box 2200, Normal, Illinois 61790-2200, U.S.A., or [intladm@ilstu.edu](mailto:intladm@ilstu.edu). For information regarding graduate assistantships, write to the chairperson of the department to which you are seeking admission. For assistance with immigration information, housing, travel, or personal problems, please write to: Director of International Studies, Illinois State University, Office of International Studies, Campus Box 6120, Normal, Illinois 61790-6120, U.S.A.

## Types of Admission

The Graduate School recognizes two types of students who are eligible to enroll in graduate courses. These are (a) degree students, and (b) non-degree students. For specific requirements for degree students, refer to the individual degree description in this catalog. The only students eligible to take courses for credit at the terminal degree level (Ed.D., M.F.A., Ph.D.) are those admitted to a degree program.

### Degree Student

A degree student is one who has been formally admitted to a program leading to a degree. A Master's degree student's admission may be unconditional, provisional or probationary. (See Master's degree section of this catalog.)

### Non-Degree Student

The three types of non-degree students are (a) Student-At-Large, (b) non-degree certification, and (c) certificate program.

**a) Student-At-Large:** A student-at-large is one who does not seek a degree or has not been officially admitted to a graduate degree program. A student-at-large may enroll without submitting official transcripts to the Office of Admissions but is required to sign a disclaimer statement upon admission. The disclaimer statement reads as follows:

*I certify that I have a baccalaureate degree from a college or university that is accredited by the appropriate regional accrediting association. I understand that my enrollment in graduate-level courses does not constitute admission to a degree program in the Graduate School at Illinois State University. I further recognize that there is no guarantee that credits earned from my enrollment as a student-at-large will be applicable to a degree at Illinois*



*State University. All graduate courses taken as a student-at-large will be computed into the graduate grade-point average.*

A student-at-large may register for courses for which he/she has the prerequisites, unless such registration is restricted by the department or the Graduate School. Courses at the 400 level in the College of Business, Mennonite College of Nursing, and Applied Computer Science are generally not open to students-at-large. If a student-at-large decides to pursue a degree at Illinois State, he or she may petition that previous courses taken may be accepted in meeting requirements for a degree. If the petition is recommended by the adviser and approved by the Graduate School, a limited number of courses may be counted toward a degree. Normally, petitions are not approved for more than twelve (12) hours but under special circumstances up to one-half of the hours of a master's degree program may be approved to be counted toward a degree. There is no guarantee that any course work taken as a student-at-large will be counted toward a degree program. It is recommended that students-at-large seek advice from the Graduate School or from any person responsible for advising students in specific graduate programs.

**b) Non-Degree Certification Programs:** Please refer to Certification Programs in Education below and/or the Department section for Curriculum & Instruction (Alternative Route to Secondary Teacher Certification) or Educational Administration (Administrative Endorsements).

**c) Certificate Program:** Post-Master's Family Nurse Practitioner program, refer to Mennonite College of Nursing in the Department section of the catalog.

## Tests Required for Admission

**Master's Programs:** Standardized tests such as GRE and GMAT are required by a majority of academic programs at the graduate level. Refer to the department section for admission requirements. See below for testing arrangements.

**Specialist in School Psychology:** Students seeking admission to the Specialist in School Psychology program must submit scores on the General Test of the Graduate Record Examination. See below for testing arrangements.

**Master of Fine Arts Program:** Students seeking admission to M.F.A. programs should consult the section on the M.F.A. in this catalog.

**Doctoral Programs:** All students seeking admission to doctoral programs must submit scores on the General Test of the Graduate Record Examination. See below for testing arrangements.

**Testing Arrangements:** Arrangements for taking the GRE and GMAT can be made with:

Educational Testing Service at [www.ets.org](http://www.ets.org)  
OR by calling GRE 1-800-GRE-CALL and  
GMAT 1-800-GMAT-NOW

## Certification Programs in Education

On March 4, 1997, the Illinois State University Council for Teacher Education adopted the following conceptual framework for both undergraduate and graduate professional education. This values and beliefs statement evolved from participation of the professional education community through a series of full faculty colloquia and open debate and exchange of ideas. The Council for Teacher Education welcomes comments and suggestions, sent to the attention of the Chair, Council for Teacher Education, 5300 College of Education.

## Realizing The Democratic Ideal: Teacher Education At Illinois State University

Illinois State University has a historic and enduring commitment to educate teachers who will be responsive to the moral and intellectual demands a democratic society places upon them. To teach in a democracy is self-consciously to take up the burden of improving the moral and intellectual quality of our societal dialogue by including in it as many educated voices as possible. The democratic ideal unites caring and knowing: the more voices we elicit and the less fettered the mutual exchange among those voices becomes, the truer our convictions and conclusions will be. This is, in a way, a democratic article of "faith," and it is why our graduates aspire to teach everyone, especially those on the margins, those who have been or are in danger of being excluded.

This democratic conception of education informs all aspects of teacher education at Illinois State University. In our view, the kind of teacher appropriate to the challenges and rewards of teaching in a democratic society unites the moral and intellectual aspects of teaching by embodying what one might call its virtues.

The moral virtues are:

- a sensitivity toward the varieties of individual and cultural diversity
- a disposition and ability to collaborate ethically and effectively with others
- a reverence for learning and a seriousness of personal, professional and public purpose
- a respect for learners of all ages and a special regard for childhood and adolescence

The intellectual virtues are:

- a wide general knowledge and a deep knowledge of the content to be taught
- a knowledge and appreciation of the diversity among learners
- an understanding of what affects learning and of appropriate teaching strategies
- an interest in and an ability to seek out informational, technological, and collegial resources
- a contagious intellectual enthusiasm and courage enough to be creative

Of the challenges facing teachers in the next millennium, none is more pressing than for them to develop and maintain a strong sense of their moral and intellectual roots—a professional identity. Toward this end, Illinois State University prepares teachers who have a strong sense of themselves and their mission as teachers: through caring and knowing they realize the democratic ideal. This, along with a high level of competence in their chosen areas, makes them teachers for whom we are thankful and of whom we are proud.

### Administration and School Service Personnel Certificates:

Individuals seeking certification through Illinois State graduate level programs must file the necessary documentation with the Office of Clinical Experiences and Certification Processes (CECP), College of Education, 310 DeGarmo. This should be done early in the program.

Certification for administrators and school service personnel may be earned only through completion of an approved University program. See the appropriate departmental adviser for the requirements of the programs in educational administration and school psychology.

All applicants for certificates must pass an examination in the area of specialization which has been developed and administered by the State of Illinois. For further information see the certification specialist in 310 DeGarmo.

**Teacher Certificates:** Graduate students who are seeking an initial teaching certificate at Illinois State University in the areas of Special Education or Speech Pathology must meet graduate-level requirements for the individual program. The requirements for major fields of study will be reviewed by the Office of Clinical Experiences and Certification Processes on an individual basis. Two of these requirements are admission to teacher education and student teaching. These requirements are explained in this section.

Students seeking an initial teaching certificate in the areas of Elementary Education, Junior High/Middle School Education, Secondary 6-12, or the Special K-12 areas of Art, Music and Physical Education can earn that certificate only through undergraduate course work. See the Undergraduate Catalog section, University-Wide Teacher Education Program Requirements, for an explanation of the requirements of these programs. Students who have already received a bachelor's degree in a non-teaching area can become certified by completing the necessary undergraduate requirements, usually through enrolling in a second bachelor's degree program.

An Alternative Route to Secondary Teacher Certification program is available in the Department of Curriculum and Instruction. This is for an initial teaching certificate for secondary school teachers in the State of Illinois. (See description in the Department section of the catalog.)

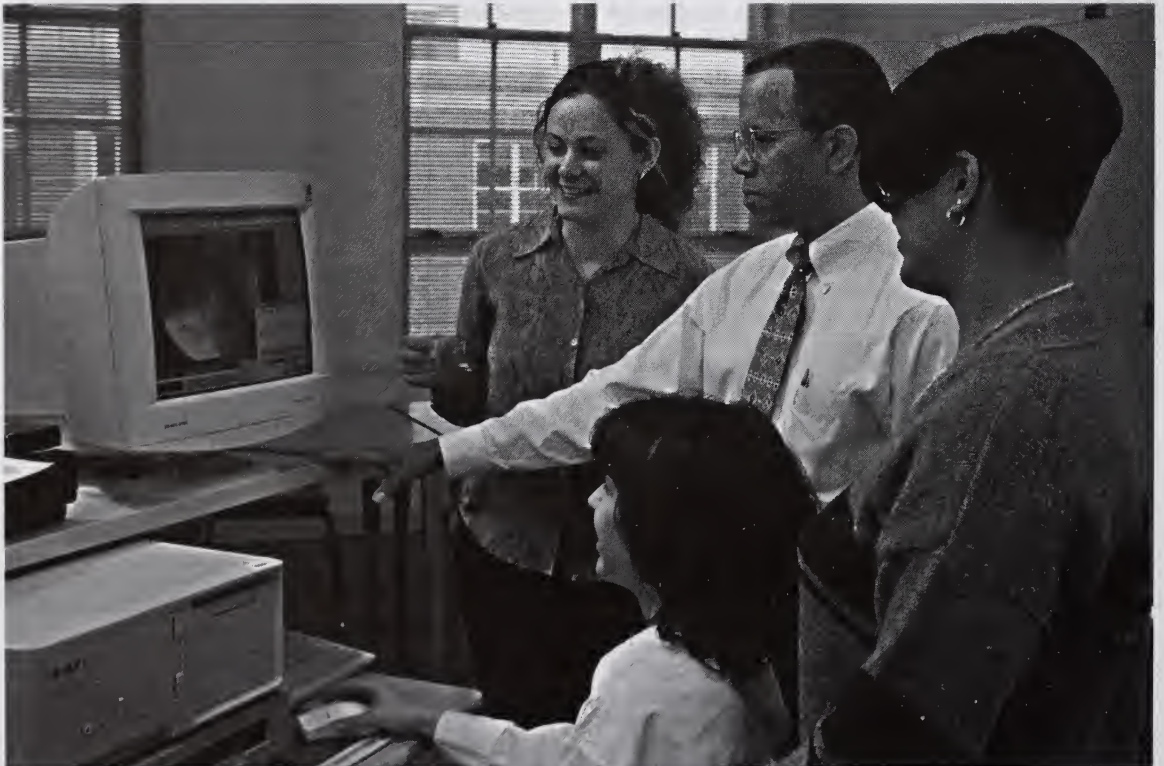
Students already having a teaching certificate who wish to apply for an additional teaching certificate and who have had

at least three months of successful teaching experience may request a transcript evaluation from the nearest Superintendent of a Regional Office of Education for the particular certificate. Students should **not** write directly to the State Teacher Certification Board. Students who complete an additional certificate by transcript evaluation will **not** have completed a program approved by the State and the National Council for Accreditation of Teacher Education (NCATE) and may have difficulty obtaining a comparable certificate in another state.

**Admission to Teacher Education:** All students seeking to complete certification requirements at Illinois State University must meet University standards for teacher education programs. Students must apply for teacher education and also apply to do student teaching through the Office of Clinical Experiences and Certification Processes, 310 DeGarmo Hall, by the established deadlines. The Application for Admission to Teacher Education and the Application for Student Teaching are separate procedures.

Students must meet the requirements for Admission to Teacher Education as outlined in the Undergraduate Catalog, University-Wide Requirements for Teacher Education. Contact the CECP Office, 310 DeGarmo, for further explanation of the requirements and/or conditions regarding eligibility for certification. Students must meet all of the requirements for student teaching before being assigned to do student teaching.

Students wishing to appeal decisions which affect their admission to or dismissal from a teacher education program or which have a direct bearing on their being recommended for certification, should contact the Office of Clinical Experiences and Certification Processes, 310 DeGarmo Hall. Also refer to a document entitled *Student Rights and Responsibilities*, which is available from the above office.



# ACADEMIC POLICIES AND PROCEDURES

Each student should assume responsibility for knowing the requirements for graduate programs and for complying with current policies.

## Semester Plan and Summer Session

The University operates on the semester plan. The value of a course is, therefore, in terms of semester hours. A semester hour is assigned for three fifty-minute periods of lecture or discussion per week for a semester of sixteen weeks. For laboratory, two fifty-minute periods per week are necessary for a semester hour.

In addition to its fall and spring semesters, a summer session has courses of varying lengths and a variety of short-term offerings. During the summer session, a student may register for one, two, three, or four credit-hour courses as well as short courses and workshops.

## Registration

Students at Illinois State University register through STAR+ (a touch-tone registration system) or through SIAS (the Student Information Access System) on a computer terminal with Illinois State University mainframe access. Instructions for both methods are included in the Class Registration Directory. Class Registration Directories may be viewed at [www.arr.ilstu.edu/Registrar](http://www.arr.ilstu.edu/Registrar) or obtained by writing to Office of Admissions, Illinois State University, Campus Box 2200, Normal IL 61790-2200 or [registr@ilstu.edu](mailto:registr@ilstu.edu).

## Academic Load

Nine to twelve hours is the usual load and fifteen hours the maximum load for a graduate student during the fall and spring semesters. In the twelve-week summer session the maximum load is twelve semester hours. Students are considered full-time if they register for nine (9) or more hours during the fall and spring semesters and six (6) or more hours in the twelve week summer session. Student fees are assessed on a per hour basis. If a student holds an assistantship the academic class load is adjusted accordingly. Scholastically, the ideal academic class load for a graduate assistant is nine (9) hours. An assistant taking fewer than nine (9) hours must have a recommendation by his or her graduate adviser which is approved, in writing, by the Graduate School. Graduate assistants taking more than twelve (12) hours must have the approval of his or her graduate adviser. Subject to departmental approval, master's students writing theses who have completed all of their coursework and the 4-6 hours of Thesis 499 may register for only one hour of Thesis 499 or one hour of Thesis Audit 499.01 (if they qualify) each semester in order to maintain their graduate assistantship. Subject to departmental approval, doctoral candidates who have completed all of their coursework and the 15 hours of Dissertation Research 599 may register for only one hour of Dissertation Research 599 or one hour of Dissertation Audit 599.01 (if they qualify) each semester in order to maintain their graduate assistantship. Graduate Assistants NOT automatically charged for on-campus clinic and major medical health and accident policy are those who register for audit hours only (e.g. thesis/dissertation 499.01/599.01) or those whose assistantships and tuition waivers are processed AFTER the 15th calendar day of the term (8th day summer). Graduate students who are registered for audit hours only or whose assistantship paperwork was "late" should DIRECTLY PAY for insurance in the Student Insurance Office, 230 SSB, or arrange payment by mail (call 438-2515). Deadline to purchase student insurance is the 15th calendar of the term (8th day summer). If the audit-only semes-

ter is in the fall, the student needs to have paid premiums for summer student insurance.

## Auditing Privileges

A student may register as an auditor in a class or classes if facilities are available. An auditor does not participate in the activity of the class, but is expected to attend regularly. An Audit (AU) designation will appear on the student's transcript when the instructor certifies that the student has attended the class on a regular basis. If the student has not attended regularly, a WX will be recorded on the transcript after the instructor has sent a written notification to the Registration Office that the student has not attended regularly. To register as an auditor, a student must register for the course. Then the student must get the instructor's signature on an auditor's permit which can be obtained from the Registration Office. Students must register to audit a course by the tenth day of classes in the semester with any exception having the approval of the chairperson of the department in which the course is offered and the Graduate School. The auditor fee is shown in the section on costs. Audited courses are considered part of the student's total load.

## Grading System

Instructors assign a grade in each course for which the student is registered and are responsible for correcting any error in grading. The grade point equivalents are 4 for A, 3 for B, 2 for C, 1 for D, and 0 for F. Courses completed at this University with grades below C will not count toward a graduate degree, but all grades of D and F in graduate courses at this University will be included in computing the cumulative grade point average. If a graduate student repeats a course, all grades are used in computing the grade point average. In very unusual circumstances exemptions to the repetition of courses regulation may be granted by the Graduate School. **Graduate courses are not available on Pass/Fail. Credit/No Credit is only provided where approval through the curricular process has been obtained.** For exceptions, see Colleges, Departments and Course Offerings under Limitation of Credit.

## Academic Good Standing

A student must have a minimum cumulative GPA of 3.0 in graduate work at this University to be in Academic Good Standing at the graduate level. Students who fail to meet this requirement will either be terminated from that degree program or placed on academic probation by the Graduate School. Upon recommendation of the department, the student can be placed on academic probation and provided with a period of time not to exceed two academic terms (including summer if enrolled) OR a number of credit hours not to exceed 12 credits, within which to raise the GPA to the required standard. A student who fails to bring the cumulative GPA up to a minimum of 3.0 during the probationary period will be terminated from that degree program by the Graduate School. A student must be in Academic Good Standing to be admitted to candidacy for a degree or to graduate.

## Research Requirements

### Research with Human Subjects

Institutional policy requires that all research involving living humans be reviewed and approved by the Institutional Review Board (IRB). This policy is applicable to all research con-

ducted by students, staff, and faculty and includes use of primary and/or secondary data and all types of research methodology. All thesis and dissertation research involving human subjects must be approved prior to data collection. For additional information and forms, contact Departmental/Unit IRB representative or the University Research Office, 310 Hovey Hall, (309) 438-2528, or [www.uro.ilstu.edu/uro/uro-home.htm](http://www.uro.ilstu.edu/uro/uro-home.htm).

### Research with Animals

Institutional policy requires that all research and instruction involving the use of animals be reviewed and approved by the Institutional Animal Care and Use Committee (IACUC). This policy is applicable to the care and use of animals by students, staff, and faculty. All thesis and dissertation research involving animals must be approved prior to conducting any research. It applies to activities conducted both on and off campus. For additional information and forms, contact the University Research Office, 310 Hovey Hall, (309) 438-2528, or [www.uro.ilstu.edu/uro-home.htm](http://www.uro.ilstu.edu/uro-home.htm).

### Applying for Graduation

The Graduate Catalog contains detailed information on requirements for graduation. Students must meet all requirements for their curriculum. A graduate student must apply for graduation in the Graduate Office, 310 Hovey Hall, before the deadlines specified for each session by the Graduate School. At the time application is made, the graduation fee must be paid.

### Commencement

Degrees are conferred and diplomas awarded after the close of each semester and summer session. Commencement ceremonies are held twice each year at the end of each fall and spring semester. Participation is voluntary. Graduate students who expect to complete degree requirements prior to commencement may participate in that commencement. Any exceptions to this regulation must be approved in writing by the Graduate School. This regulation does not apply to doctoral students. All doctoral students must complete all requirements for the degree to participate in Commencement.

Upon receipt of a certificate or a master's, specialist, or doctoral degree from Illinois State University, the student's major classification will be changed to student-at-large unless the student applies for a second master's degree or an advanced graduate degree.

### Incomplete Grades

An incomplete (I) will be assigned to a student who is doing passing work but finds it impossible, because of reasons beyond her or his control, such as illness, to complete the required work by the end of the term. The student must have attended class to within three weeks of the close of the semester or a proportionate time for a summer session or short course, and the quality of the work must be such that the student can complete it through special assignments and/or examinations. The instructor will specify 1) the date by which the required work must be completed, which will be no later than the final class day of the corresponding term of the following academic year, and 2) the default grade (B, C, D, or F) which will be assigned if the work is not completed by the specified date. The student will be notified of the default date and grade. Once a default grade has been placed on a student's record, it can be changed only with the approval of the Graduate School. For graduating students, incompletes in courses listed on their Plan of Study must be removed in the Records Office at least three weeks prior to graduation.

### Deferred Credit

Deferred credit (De) is always given in research and performance courses leading to a thesis, dissertation or exhibition. Credit will be allowed when the student satisfactorily completes all requirements for the program. Deferred credit (De) is not used in computing the cumulative grade point average.

### New Start Policy

Students who leave an Illinois State graduate degree program and return to Illinois State to pursue a different graduate degree may begin the new degree program with a new graduate GPA calculated from the point of their readmission to the Graduate School as long as 1) the student is admissible to the new graduate program at Illinois State and meets all the criteria established by the Graduate School; 2) the student has not enrolled at Illinois State University for a period of at least three years; and 3) the New Start provision is approved by the new department at the time of readmission.

Graduate courses taken prior to being readmitted to the Graduate School will not apply or count toward the graduate program for the new degree. Students may exercise the "New Start" option only once and must follow the re-entry catalog. Such students will have "New Start" indicated on their transcript.

### Religious Observances

The University will reasonably accommodate its students, faculty, and staff who are unable to fulfill their regular duties on the occasion of a religious observance. Faculty and staff should observe normal procedures for absence from their duties. Students who are unable to attend class or take examinations for religious reasons will be given information needed to make up classes and work which were missed or to take the examination on an alternate, acceptable day.

### Transfer of Degree Programs

A transfer from one degree program to another requires approval of the receiving department.

### Withdrawals - From Less Than All Courses

The following policy applies to students who drop a course or courses but maintain an enrolled status within the University: A student may withdraw from a course during the program change period without the withdrawal being shown on the transcript. (A student should consult the *Class Registration Directory* to obtain specific dates.)

After the tenth day of classes but prior to the end of the eighth week of classes during any regular semester, a student may withdraw from a full semester course with a grade of WX upon complying with the following steps: 1) obtain, complete, and sign a withdrawal form; 2) obtain the instructor's signature on the form; 3) submit the form to the Registration Office.

A grade of F will be given to students who 1) fail to officially withdraw from a course by complying with the above procedure; or 2) register for a course but do not complete course requirements.

A student should consult the applicable *Class Registration Directory* for specific withdrawal dates during any instructional term. For courses taken during a term less than a regular semester, a proportional withdrawal period will apply.

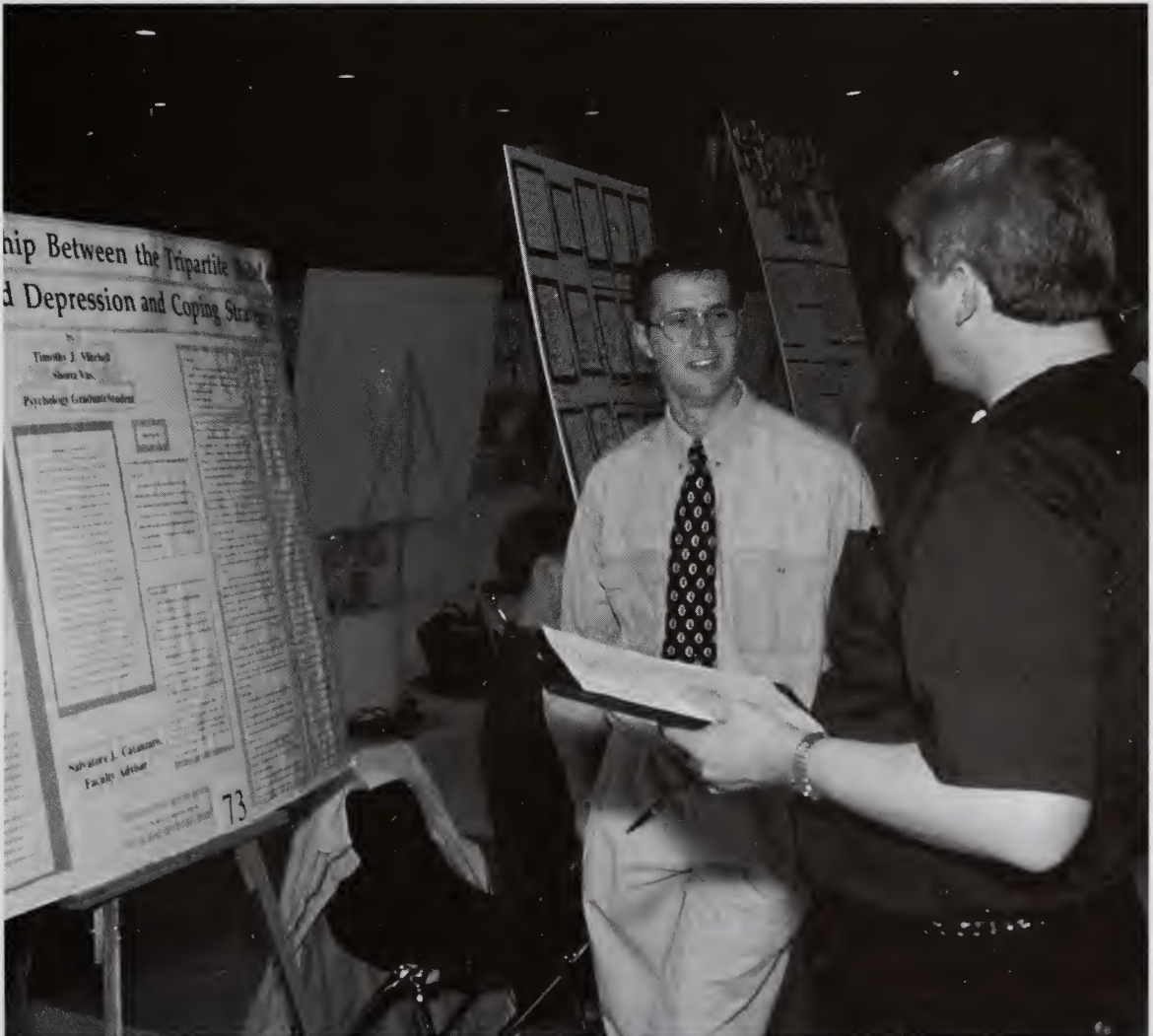
Upon the written recommendation of a licensed physician or clinical psychologist, or in other unusual circumstances, a student may be granted permission to officially withdraw from a course for medical, psychological or other special reason after the official withdrawal period upon receiving approval from the Graduate School.

### Withdrawal from the University

The following policy applies when a student drops all courses in which he or she is enrolled, which is known as withdrawal from the University. The Graduate School strongly advises students to complete courses in which they are enrolled and not to withdraw from the University unless absolutely necessary. Before the end of the twelfth week of classes, students contemplating withdrawal from the University must contact Academic Records and Registration Services. If the student's request to withdraw from the University is granted, all grades will be assigned in the same manner and under the same provisions as the regular course withdrawal policy except that the student will not be required to contact his or her instructors. Instead, the instructor of each course would assign a WP, WF, WX, or letter grade as appropriate. If medical or similar substantial reasons make it impossible for the student to follow the usual procedures, a letter signed by the student explaining the situation and requesting withdrawal from the University will be sufficient. Whether delivered in person or by mail, the withdrawal is processed in Office of University Registrar, First Floor Moulton Hall, Campus Box 2202, Normal IL 61790-2202. Requests may be sent by fax to (309) 438-7350.

Regardless of the circumstances of withdrawal, the student shall be responsible for returning any laboratory equipment and library materials. The student shall pay any parking fines and remove the parking decal from any registered vehicle. The student shall contact the Office of Residential Life to obtain clearance from room and board obligations and to arrange for vacating the residence hall room. The student shall arrange with the Financial Aid Office to place any scholarship on leave or cancel it and arrange a payment plan for any loans.

A grade of F will be given to students who do not officially withdraw with the Registration Office before the specified final withdrawal date, and to students who register for a course but do not complete course requirements. In exceptional cases, deviations may be granted by the Dean of the Graduate School. In the case of courses carrying graduate credits, the F will count toward the graduate student's grade point average.



# FIELDS OF STUDY AND DEGREES GRANTED

## College of Applied Science and Technology

Agribusiness .....	M.S.
Applied Computer Science .....	M.S.
Criminal Justice Sciences .....	M.A., M.S.
Environmental Health and Safety .....	M.S.
Family and Consumer Sciences .....	M.A., M.S.
Health, Physical Education, and Recreation .....	M.S.
Industrial Technology .....	M.S.

## College of Arts and Sciences

Applied Economics .....	M.A., M.S.
Biological Sciences .....	M.S., Ph.D.
Chemistry .....	M.S.
Communication .....	M.A., M.S.
English .....	M.A., M.S.
English Studies .....	Ph.D.
Foreign Languages .....	M.A.
Geohydrology .....	M.S.
History .....	M.A., M.S.
Mathematics .....	M.A., M.S.
Mathematics Education .....	Ph.D.
Political Science .....	M.A., M.S.
Psychology .....	M.A., M.S.
School Psychology .....	S.S.P., Ph.D.
Social Work .....	M.S.W.
Sociology .....	M.A., M.S.
Speech Pathology and Audiology .....	M.A., M.S.
Writing .....	M.A., M.S.

## College of Business

Accounting .....	B.S./M.P.A., M.S.
Business (Finance, Insurance and Law; Management and Quantitative Methods; Marketing) .....	M.B.A.

## College of Education

Curriculum and Instruction .....	M.S., M.S. in Ed., Ed.D.
Educational Administration .....	M.S., M.S. in Ed., Ed.D., Ph.D.
Instructional Technology .....	M.S.
Reading .....	M.S. in Ed.
Special Education .....	M.S., M.S. in Ed., Ed.D.

## College of Fine Arts

Art .....	M.A., M.S., M.F.A.
Arts Technology .....	M.S.
Music .....	M.M., M.M.Ed.
Theatre .....	M.A., M.S., M.F.A.

## Mennonite College of Nursing

Nursing .....	Post Master's FNP Certificate, M.S.N.
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**NOTE:** Graduate degrees are not granted in the following departments, but graduate course work is available as supplemental study or as electives:

- Department of Philosophy
- Department of Physics

## Master's Degrees

### Admission to Master's Programs

An applicant for a program leading to the master's degree must have a bachelor's degree from a four-year college or university that is accredited by the appropriate regional accrediting association, or its equivalent, as determined by the Graduate School. Applicants are considered on the basis of their academic record and other performance requirements stipulated by the individual departments. These may include examinations, interviews, auditions, examples of work, and letters of recommendation. To be admitted to a degree program, a student must have at least a 2.6 grade point average (on a scale in which A equals 4) for the last 60 hours of undergraduate work, and the approval of an academic department. In specific cases a department may petition the Graduate School for permission to use undergraduate courses taken while the student is classified as a graduate student (either as a Student-at-Large or a degree student in another graduate program) in calculating the GPA for the last 60 undergraduate hours. An applicant to the Integrated Bachelor of Science/Master of Professional Accountancy program must be an Illinois State University undergraduate or a transfer student with 60 hours or less. Students who have received a bachelor's degree are not eligible for admission into an integrated program except under the provisions of obtaining a second bachelor's degree. Specific admission requirements are described under departmental listings in this catalog.

**Provisional Admittance:** A student whose application for a degree program is incomplete because not all required supporting material has been received in the Office of Admissions may be admitted as a provisional student. Provisional admission will not be granted in the absence of scores from the GRE general test, writing assessment, or the GMAT, as applicable. The provisional student may be granted a permit to register for one semester only, pending a decision on his/her application for admission. A provisional student is not a student-at-large. If the student with provisional status is subsequently unconditionally admitted to the Graduate School, there is no guarantee that the courses taken before unconditional admission will be counted toward a degree. Acceptance of previous courses will depend upon the recommendation of the adviser and the approval of the Graduate School. The degree-seeking applicant who enrolls as a provisional degree student accepts the risk of termination from the program if the provisional status is not cleared in the student's first semester.

**Probationary Admittance:** A student who does not meet the minimum grade point requirement but whose academic record and entrance examination scores give promise of high performance may be admitted as a probationary degree student. This admission must be based upon other documentation that the department deems important. Examples include exceptional scores on standard or additional examinations, interviews, letters of recommendation, exceptional grades in previous graduate work, samples of original work and/or demonstrated performance ability. Such recommendations for admission will be forwarded to the Graduate School for approval only if the student does not meet the minimum grade point average of 2.6 in the last 60 semester hours of undergraduate work. A student who meets the Graduate School established minimums but not the department's minimum admission requirements may be

admitted by the department on a probationary basis without approval from the Graduate School. Such admission may be restricted to a trial period of one semester. Any special restrictions of this type will be noted on the admission form along with other requirements for continued graduate study. These may include the successful completion of specific courses or projects, the obtaining of a minimum specified grade point average, and/or other requirements. If these requirements are not met, the student may be terminated from the program at the end of one semester upon the recommendation of the department and approval of the Graduate School.

**Deficiencies:** When an applicant has been accepted, the department adviser will indicate any courses that may be required to remove undergraduate deficiencies. The department also may specify certain graduate courses which will be required in addition to those listed in the catalog and will designate which, if any, of these courses may be used in meeting requirements for the degree.

#### **Seniors Taking Graduate Courses For Graduate Credit:**

Undergraduates can take graduate courses for graduate credit if they 1) are in their final semester, 2) have no more than twelve hours of undergraduate course work to complete, and 3) have been admitted provisionally into a graduate degree program at Illinois State. Total registration can not exceed fifteen hours in that semester. Students must graduate at the end of that academic term to receive graduate credit for the courses taken. An exception is made when students must schedule practicum/student teaching requirements during their final semester. In such cases, qualified students may register for graduate courses during the academic term preceding the semester in which the practicum/student teaching requirements are met.

All course work taken for graduate credit must be approved by the department and the Graduate School **BEFORE** students register. A form for that purpose is available in the Office of Admissions.

Course work will count toward a graduate degree only if a student qualifies under the above criteria. Course work taken for graduate credit cannot count toward a bachelor's degree except under the provisions of integrated bachelor's/master's degree programs.

This opportunity is also extended to last semester seniors of other universities who find it possible to take graduate work at this University while completing requirements for the bachelor's degree on their own campuses. Interested students should write to the Graduate School for further information. Such graduate courses cannot be used in meeting bachelor's degree requirements on their own campuses.

### **Degree Options and Credit Requirements**

Master's degrees are offered in the fields indicated above. A master's degree can be earned through one of three options. Not all programs contain all three options. Each option has a credit hour and a culminating requirement. Also, departments may have requirements in addition to the minimum below. The minimum requirements for the three options are as follows:

1. A 32-hour program that includes a minimum of 32 hours and from four to six hours of credit in Master's Thesis 499.
2. A program with a minimum of 32 hours and a comprehensive examination.
3. A 39-hour program that designates a specific course, which includes synthesizing experiences involving research and exposition.

The culminating requirement in each option requires mature application of skills and knowledge. The student is expected to demonstrate an approved standard of scholarship and to provide evidence of his/her ability to think logically, to draw and defend conclusions, and to complete the work in a creditable manner.

Once an option has been approved on the formal Plan of Study, it can be changed only with written approval of the student's academic adviser and the Graduate School.

In the 32-hour option students must present, exclusive of Master's Thesis 499, not less than 15 hours of 400-level course work. In the 39-hour option program, not less than 18 hours of 400-level course work must be presented. Some departments have higher hour requirements for 400-level courses.

Candidates for a master's degree may present no more than 9 hours total of credit from general courses 393, 397, 400, 493 and 498.

### **General Degree Requirements**

**Master of Arts:** The Master of Arts degree is awarded to a student who has completed an appropriate degree program and met the foreign language requirement for this degree at the college level. This requirement may be met by:

1. Completing a minimum of four semesters (or its equivalent) in a foreign language. The requirement may be met by earning a C or better (or Credit or Pass) in the courses at either the graduate or undergraduate level.
2. Obtaining a satisfactory score on a University administered language examination approved by the Graduate School available in German, French, or Spanish.
3. Other methods as determined by the department with approval by the Graduate School.

Students whose native language is not English may, with departmental approval, petition the Graduate School to substitute proficiency in the English language as fulfillment of the language requirement.

**Master of Business Administration:** Requirements for this degree are listed in the section devoted to the College of Business.

**Master of Science:** Refer to departments for specific requirements.

**Master of Science in Education:** The Master of Science in Education degree may be awarded to students who have met the requirements as designated in the individual departments in the College of Education. Refer to departments for specific requirements.

**Master of Music and Master of Music Education:** Requirements for these degrees are listed in the Music Department section.

**Master of Fine Arts (Art and Theatre):** Requirements for these degrees are listed in the departmental sections of this catalog and also under the heading of Master of Fine Arts.

**Master of Social Work:** See department section for information.

**Master of Science in Nursing:** See department section for information.

**Integrated Bachelor of Science/Master of Professional Accountancy:** See department section for information.

## Integrated Bachelor's/Master's Degree Programs

An integrated degree program allows students to complete an undergraduate and graduate degree with fewer credit hours than would be possible if the degree were completed separately. Students who wish to complete an integrated program will receive both degrees simultaneously upon the completion of all program requirements for both degree program. Integrated programs require students to begin graduate program requirements while still classified as an undergraduate.

**Application Period:** Students are eligible to apply for admission into an integrated program after they have completed approximately 90 hours of coursework, at which time they may enroll in graduate courses under the provisions of "senior-in-good-standing" regulation at the time of application.

Up to nine hours of graduate credit completed while enrolled as an undergraduate student may be used to complete the requirements of both programs.

**Student Withdrawal from Integrated Program:** Students contemplating withdrawal from an integrated program should contact their advisor. Students who elect to be awarded the bachelor's degree are terminated from the Integrated Program and are not eligible to be re-admitted or be awarded an integrated degree.

Students with a bachelor's degree may seek admission to the regular graduate program if they so choose. See department section for specific information.

The following departments offer integrated undergraduate/graduate degree programs:

Accounting                      Integrated B.S./M.P.A.

## Two Master's Degrees Simultaneously

A maximum of nine (9) hours of course work is allowable to count simultaneously toward two (2) master's degrees provided certain other stipulations are met. These stipulations are as follows: 1) that the student have the approval of the department granting the second master's degree prior to the completion of the first degree, 2) that all requirements for both degree programs be met within the six year time limit, 3) that a particular thesis may not be used to meet the degree requirements for more than one degree, and 4) that not more than three (3) hours of the nine (9) hours allowed to count toward the second degree be generated by independent study, practicum, or workshop credit.

## Residence Requirements

Except in the departments of Art and Speech Pathology-Audiology, a candidate for a master's degree is not required to complete a residence requirement. For specific requirements of the above departments refer to the department program description.

## Time Limitations

All requirements for the master's degree must be completed within six calendar years, beginning with the date the student first registers as a degree student. This time limit applies to enrollment in all graduate course work in the student's program including work for which transfer credit is allowed. If a course taken to complete the requirements for the master's degree is not within the six-year period allowed for the degree program, the student's department may require the student to retake the course for credit or allow the student to demonstrate current knowledge and/or proficiency of the sub-

ject matter. If the latter is used, currency must be demonstrated to the satisfaction of the department offering the course through successful completion of an appropriate examination or other assessment if available from the department. Otherwise, outdated course work must be deleted from, and other course work must be substituted in, the plan of study. Credits more than six years old at the time of first registration into a degree program are not transferable from other institutions. (Individual departments may have more stringent timelines. Currently, the Nursing program must be completed within five years.) When graduate study is interrupted by military service or other contingencies, the six year limit may be extended with the approval of both the department and the Graduate School. A Request to Extend Time to Complete Graduate Degree Program must be completed by the student, graduate coordinator, and, if applicable, thesis chair, and submitted to the Graduate School for approval/denial.

## Transfer Credit

Upon recommendation of the department where the student is enrolled and with the approval of the Graduate School, a student may present a maximum of nine semester hours of graduate credit from another college or university that is accredited by the appropriate regional accrediting association for use in meeting the requirements of the master's degree. Credits more than six years old at the time of first registration into a degree program are not transferable from other institutions. Transfer credit may not be used in meeting the minimum number of 400-level credit hours required for the master's degree. The work must not form part of a degree program elsewhere. Under special circumstances, the Graduate School may allow a student to present a larger number of credits if recommended by the department. A student who plans to take work elsewhere should obtain prior approval indicating that the course or courses are appropriate to the student's curriculum at Illinois State University. Correspondence courses are not accepted toward a master's degree.

To be considered for transfer of credit, a course must be taught at the graduate level and the student must have received at least a B grade in the course. In addition, a departmental evaluation of all courses presented is necessary prior to consideration by the Graduate School.

## Academic Advisers

Each student has an academic adviser to assist in planning the student's work. This adviser should be consulted regarding the sequence of courses, the selection of electives, and the option of thesis, comprehensive examination, or 39-hour option. After admittance to a degree program, each student's coursework should be selected with the approval of the academic adviser and put into the form of a Plan of Study. The student has the responsibility of meeting with the adviser on an ongoing basis to keep the Plan of Study updated as needed. If the coursework does not have such approval, there is no assurance that it may be used in meeting the requirements for the degree. The student must file the Plan of Study, approved by the adviser, in the Graduate School early in the semester of anticipated graduation by the deadline established by the Graduate School. If a student follows a curriculum of specialization in a subject-matter field, the chairperson of the department concerned is the academic adviser unless another faculty member has been appointed by the chairperson.

An advisory committee is appointed for each student who writes a thesis. This committee is responsible for directing the thesis project, recommending the student for admission to candidacy for the degree, and conducting the final examination.



If the student chooses the option of a comprehensive examination, the department has the responsibility of recommending the individual for admission to candidacy and conducting the final examination.

### Admission to Candidacy

To be admitted to candidacy for the master's degree the student must have a Plan of Study on file in the department, completed all deficiencies, a minimum G.P.A. of 3.0 in graduate course work at Illinois State, and a copy of the Thesis Proposal approval form on file in the Graduate School if choosing a thesis option. The student must file the Plan of Study, approved by the adviser, in the Graduate School early in the semester of anticipated graduation by the deadline established by the Graduate School. The Plan of Study must indicate whether the student has selected the comprehensive examination, thesis option, or the 39-hour option.

### Comprehensive Examination

For the comprehensive examination option, a comprehensive examination must be taken by each student before receiving the master's degree. The content, process, scheduling, administration, and evaluation of the examination (oral, written, performance, or otherwise) are to be determined by each department or degree granting academic unit. To apply for comprehensive examinations a student must be in good standing in a program, have a Plan of Study on file in the department, not be on academic probation, and have a GPA of at least 3.0 at the time of the examination.

### Thesis

**Registration For Thesis Work:** The student electing the thesis option must register for from four to six hours of 499, Master's Thesis. Any student using the services of the academic staff or the facilities of the University must be registered for the semester or term during which the services are rendered or the facilities are used. Also, to register for 499 the student must actually be working on the subject under the direction of the adviser or thesis chairperson. No grade will be given for the course but credit will be entered on the student's record at the time the approved thesis is deposited in the Graduate School. No credit for 499 may be given to a student who does not complete a thesis.

**Continuous Registration:** After the Thesis Proposal approval form has been accepted in the Graduate School and a student has completed the courses on the approved Plan of Study and registered for four to six hours of 499 Master's Thesis, the student is required to maintain continuous registration until the deposit of the final thesis in the Graduate School. The requirement for continuous registration may be fulfilled by contacting the Graduate School to request registration. The requirement for continuous registration does not apply during a summer term unless the student is graduating in that term. Registration for 499.01 may be in absentia. If circumstances prohibit continuous registration, a student must request a leave of absence from the department and then from the Graduate School. Any student interrupting registration without obtaining a leave of absence must pay tuition for one credit hour of 499.01 for each of the delinquent semesters upon reenrollment and/or reinstatement. Any student requesting reinstatement in a degree program after a lapse of one calendar year must direct an application for readmission to the Admissions Office.

**Thesis Committee:** A thesis is written under the direction of a thesis committee appointed in a manner specified by the

department. The committee normally consists of three or more members of the Graduate Faculty, but shall not be fewer than two members. The chairperson of the committee shall be a Member of the Graduate Faculty. A student must be admitted to a degree program in the Graduate School before a thesis committee can be appointed.

**Thesis Proposal:** The Proposal for Research, including the title, scope, and design, must be approved by the student's thesis committee before a student is admitted to candidacy. The student is required to file an approved Proposal for Research with the department at a time and in a manner specified by the department. Institutional policy requires that all research involving human subjects be reviewed by the Institutional Review Board (IRB). Research involving animals must be reviewed by the Institutional Animal Care and Use Committee (IACUC). A copy of the Thesis Proposal approval form shall be deposited in the Graduate School by the early part of the semester or term in which completion of the master's degree is expected, according to the deadlines published by the Graduate School. Forms are available in the Graduate School.

There is no assumption of uniformity in thesis research. For example, a student may propose a creative project in art or music. However, the completed project must meet approved standards of scholarship in the chosen field of study. In each instance there must be evidence of ability to think logically, to gather and organize material, to draw and defend conclusions, and to present the results of the foregoing procedures in a creditable manner.

In special situations, and only with the approval of the thesis committee, the department chair (designee), and the Graduate School, students may collaborate on some aspects of the work contributing to their theses. However, each thesis submitted to the Graduate School for approval must be a unique product with the degree candidate as the sole author and with due acknowledgment of the contribution of collaborators. The individual student must demonstrate to her or his committee satisfactory command of all aspects of the work presented.

**Thesis Acceptance:** The thesis must be tentatively accepted by the thesis examiner of the Graduate School before the distribution of the final examination copies. The examiner will check the thesis to ensure that it is consistent with the selected thesis style and the *Guide for Writers of Master's Theses* published by the Graduate School.

After tentative acceptance by the examiner, the student must file two unbound examination copies of the thesis in the departmental office at least one week (seven days) before the thesis defense. The defense of the thesis is open to the academic community of the University. The department will notify in a timely manner its faculty, students, and the Graduate School about the thesis defense in a manner consistent with its normal departmental lines of communication. Subject to reasonable expectations of the chair of the student's committee, visitors may participate in questioning and discussion relevant to the topic of the thesis. However, only members of the student's committee will vote and make a final recommendation on the acceptance of the thesis. The Graduate School or designee and any other members of the Graduate Faculty of that department may be in attendance during the committee's deliberations. Following the defense, the student must file in the Graduate School the original and a copy of the approved thesis, unbound, with any corrections suggested by the committee. Before a thesis is finally accepted by the Graduate School, it will be examined again to verify corrections and conformity to University requirements. After binding, the original and copy of the thesis will be placed on file in the University library.

To be eligible for graduation a student must deposit the thesis in the Graduate School at least 10 days before the end of the semester or term or by the deadline published by the Graduate School. Theses filed after that date will be credited toward graduation the following semester or term. A student on academic probation is not eligible to submit a thesis or equivalent for acceptance by the Graduate School.

## Specialist in School Psychology

**Admission:** An applicant for the program leading to the S.S.P. degree must have a bachelor's degree from a four-year college or university that is accredited by the appropriate regional accrediting association, or its equivalent, as determined by the Graduate School. Applicants are considered on the basis of their academic record, scores on the general test of the Graduate Record Examination, 3 letters of recommendation, and a personal data form. To be admitted to the degree program a student must have at least a 3.0 grade point average (on a scale in which A equals 4) in the last 60 hours of undergraduate work and the approval of the academic department.

For information on Provisional Admission, Probationary Admission, Deficiencies, Seniors Taking Graduate Courses for Graduate Credit, Degree Option and Credit Requirements, Transfer Credit, Academic Advisers, Program Approval, Registration for Thesis Work, Continuous Registration, Thesis Committee, Thesis Proposal, and Thesis Acceptance, see Master's Degrees.

**Degree Option and Credit Requirements:** The S.S.P. degree requires the completion of a minimum of 61 semester hours of graduate level course work including practicum experiences; a full-time, nine-month internship in a school setting and a thesis for which 4 semester hours of credit will be given.

Students must maintain a grade point average of at least 3.0 throughout their graduate training. Additionally, no more than 9 semester hours with grades of "C" are permissible. Students must present, exclusive of Thesis 499, not less than 15 hours of 400-level course work.

**Time Limitations:** All requirements for the S.S.P. degree must be completed within six calendar years, beginning with the date the student first registers as a Specialist in School Psychology degree student. This time limit applies to enrollment in all graduate course work in the student's program including work for which transfer credit is allowed. If a course taken to complete the requirements for the S.S.P. degree is not taken within the six-year period allowed for the degree program, the student's department may require the student to retake the course for credit or allow the student to demonstrate current knowledge and/or proficiency of the subject matter. If the latter is used, currency must be demonstrated to the satisfaction of the department offering the course through successful completion of an appropriate examination or other assessment if available from the department. Otherwise, outdated course work must be deleted from, and other course work must be substituted in, the plan of study. Credits more than six years old at the time of first registration into a degree program are not transferable from other institutions. When graduate study is interrupted by military service or other contingencies, the six year limit may be extended by the Graduate School. A Request to Extend Time to Complete Graduate Degree Program must be completed by the student, graduate coordinator, and, if applicable, dissertation chair, and submitted to the Graduate School for approval/denial.

**Admission to Candidacy:** To be admitted to candidacy for the S.S.P. degree the student must have an approved Plan of Study on file in the Graduate School, completed all deficiencies, a minimum G.P.A. of 3.0 in graduate course work at Illinois State, and a copy of the Thesis Proposal approval form on file in the Graduate School.

**Transfer Credit:** Upon recommendation of the department and with the approval of the Graduate School, a student may present a maximum of nine semester hours of graduate credit from another college of university that is accredited by the appropriate regional accrediting association for use in meeting the requirements of the S.S.P. degree.

Credits more than six years old at the time of first registration into a degree program are not transferrable from other institutions. The work must not form part of a completed degree program elsewhere. Under special circumstances, the Graduate School may allow a student to present a larger number of credits if recommended by the department. A student who plans to take work elsewhere should obtain prior approval indicating that the course or courses are appropriate to the student's curriculum at Illinois State University. Correspondence courses are not accepted toward a specialist's degree.

To be considered for transfer of credit, a course must be taught at the graduate level and the student must have received at least a B grade in the course. In addition, a departmental evaluation of all courses presented is necessary prior to consideration by the Graduate School.

## Post-Master's Certificate in Nursing

See Department section for information.

## Master of Fine Arts

Offered in the Department of Art and the Department of Theatre, the Master of Fine Arts (M.F.A.) is a terminal degree that emphasizes theory and practice in a particular discipline of the arts.

**Admission:** All regular criteria for admission to a degree program in the Graduate School of the University will apply. In addition, applicants in the Department of Theatre must audition and applicants in the Department of Art must submit a portfolio along with meeting other department requirements. This material will be reviewed by the members of the Graduate Faculty in the applicant's intended area of emphasis. After evaluations have been completed, the Office of Admissions will notify the applicant of the decision regarding admission to the M.F.A..

**Academic Advisers:** In the Department of Art the student in the pre-candidacy phase of the program selects a major adviser with the help of the Graduate Coordinator. With the help of the major adviser the student selects a candidacy review committee of three members. The chairperson of this committee must be from the student's major area of emphasis. Normally, the candidacy review committee continues as the student's graduate committee during the candidacy phase of the program.

In the Department of Theatre the chairperson of the department, in consultation with faculty whom the chairperson deems appropriate, will select the candidate's Portfolio Committee. The committee chairperson must come from the student's major area of emphasis.

**Curriculum Requirements:** A professionally oriented program, the M.F.A. requires a minimum of 60 hours for a student with only a bachelor's degree or a minimum of 32 hours for a student with an earned master's degree. The total hours required for a student with an earned master's degree will be based on an evaluation of the student's portfolio and academic record. However, the final determination will not be made until the student has completed a minimum of six semester hours in the student's major area of emphasis. A candidate for the degree must demonstrate proficiency both as a practitioner and a teacher in one of several areas of emphasis listed in the Graduate Catalog.

**Time Limitations:** All requirements for the Master of Fine Arts degree must be completed within eight calendar years, beginning with the date the student first registers as a degree student. This time limit applies to enrollment in all graduate course work in the student's program, including work for which transfer credit is allowed. If a course taken to complete the requirements for the M.F.A. degree is not taken within the eight year period allowed for the degree program, the student's department may require the student to retake the course for credit or allow the student to demonstrate current knowledge of the subject matter. If the latter is used, currency must be demonstrated to the satisfaction of the department offering the course through successful completion of an appropriate examination or other assessment if available from the department. Otherwise, outdated course work must be deleted from, and other course work must be substituted in, the plan of study. Credits more than eight years old at the time of first registration into a degree program are not transferable from other institutions. When graduate study is interrupted by military service or other contingencies, the eight-year limit may be extended by the Graduate School.

**Transfer Credit:** Credits more than eight years old at the time of first registration into a Master of Fine Arts degree program are not transferable from other institutions. The work must not form part of a completed degree program elsewhere. Under special circumstances, the Graduate School may allow a student to present a larger number of credits if recommended by the department. A student who plans to take work elsewhere should obtain prior approval indicating that the course or courses are appropriate to the student's curriculum at Illinois State University. Correspondence courses are not accepted toward the M.F.A. degree.

To be considered for transfer of credit, a course must be taught at the graduate level and the student must have received at least a B grade in the course. In addition, a departmental evaluation of all courses presented is necessary prior to consideration by the Graduate School.

In the Department of Art, a student can transfer no more than nine semester hours of credit from any graduate program (including a master's program in Art at Illinois State University) for use in meeting the requirements of the M.F.A. degree.

In the Department of Theatre, a student who does not have an earned master's degree may present a maximum of six semester hours of credit from another college or university for use in meeting the requirements of the M.F.A. degree. However, the student may present all earned hours from a master's program in Theatre at Illinois State for use in meeting these requirements. A Theatre student who has an earned master's degree must earn a minimum of 32 hours in the M.F.A. program at Illinois State University.

**Residency:** A student without an earned master's degree must complete a residency requirement of at least four semesters with at least two of them being full-time, consecutive semesters. A student with an earned master's degree must complete a resi-

dency requirement of at least two full-time, consecutive semesters. Summer session may be counted toward the two consecutive semester requirement only in the Department of Theatre.

**Admission to Candidacy:** In order to be admitted to candidacy, the student without an earned master's degree must have completed 24 hours of graduate study at Illinois State University or two semesters of full-time resident study. The student with an earned master's degree must have completed 12 hours of graduate study at Illinois State University or one semester of full-time resident study. All students must have a grade average of B or better with no more than 5 (6 in the Theatre Department) hours below B.

Before becoming a candidate for the M.F.A. in Art the student must pass a candidacy review that includes approval of the following items: portfolio of studio work, final Plan of Study, and proposal for the Supportive Statement (an exhibition-related written project).

Before becoming a candidate for the M.F.A. in Theatre the student must have a Plan of Study on file with the Graduate School and pass a qualifying examination which is administered by the student's M.F.A. portfolio committee. Admission to candidacy, which usually occurs in the final semester, must be satisfied before the student is allowed to schedule an exit portfolio presentation.

**General Course Limitations:** Candidates for the M.F.A. may present no more than 15 total hours of general courses 393, 397, 400, 493, 498, and 500 toward their degree.

For additional program requirements, see departmental sections of this catalog.

## Doctor of Education

The Doctor of Education degree is designed for the preparation of practitioners competent in identifying and solving complex educational problems and who have the ability to understand and conduct research in their field. The career objectives of program graduates generally lie in areas of education at any academic level.

### Program Requirements

**Admission:** Students seeking admission to a Doctor of Education (Ed.D.) degree program must submit letters of recommendation and scores on the General Test of the Graduate Record Examination. Students may be required to come to the campus for an interview. Admission to an Ed.D. program will take account of personal and professional qualifications as well as scholastic records and measurement of academic ability. Admission to the Ed.D. program requires a level of preparation equivalent to a master's degree in an appropriate discipline from an accredited institution. Departments may make exceptions in specific cases. Admission requires approval by both the department and the Graduate School.

**Academic Adviser:** Each department is responsible for advising each student upon admittance to the program and informing the student of the source of this assistance. The student's Plan of Study must have the approval of appropriate departmental officials and the Graduate School and should be submitted early in the student's program.

**Minor Fields:** A Doctor of Education student may select a minor field (or fields) of study. The selection and composition of a minor field (or fields) must have the approval of the Graduate School and the major and minor departments. A minor field may, under certain circumstances, be in the same department as a major field.

**Doctoral Residency:** There is a full-time residency requirement of at least two terms. A term may be a semester or a summer session of at least eight weeks. Full-time residency is defined as at least nine semester hours of course work during a semester or six semester hours during a summer session. Departments may add additional residency requirements to the minimum stated above.

**Purposes of a Doctoral Residency:**

1. To orient and prepare graduate students to meet academic expectations and engage in activities that are associated with involvement in a scholarly environment as they pursue their doctoral degree.
2. To engage graduate students in the process of inquiry appropriate to their area of interest, discipline, and method of investigation.
3. To stimulate the intellectual, personal, and social development of graduate students through mentoring and other activities involving faculty, other students and other professionals.
4. To provide access to libraries, laboratories, and other instructional materials including computers and other technologies that support the intellectual development of students.

Each student will file a Declaration of Residency for approval of the department prior to entering into residency. The department will verify the completion of residency and then file the declaration with the Graduate School. Any exceptions to the above requirements must have the approval of the department and the Graduate School.

**Time Limitations:** All requirements for an Ed.D., including the dissertation, must be completed by the end of eight calendar years beginning with the date the student first registers as a Doctor of Education degree student. This time limit applies to enrollment in all graduate course work in the student's program. If a course taken to complete the requirements for the Ed.D. degree is not taken within the eight-year period allowed for the degree program, the student's department may require the student to retake the course for credit or allow the student to demonstrate current knowledge of the subject matter. If the latter is used, currency must be demonstrated to the satisfaction of the department offering the course through successful completion of an appropriate examination or other assessment if available from the department. Courses from other institutions falling outside the limitation of time may not be used in a graduate program. When graduate study is interrupted by military service or other contingencies, the eight-year limit may be extended by the Graduate School. A Request to Extend Time to Complete Graduate Degree Program must be completed by the student, graduate coordinator, and, if applicable, dissertation chair, and submitted to the Graduate School for approval/denial.

**Course Requirements:** A Doctor of Education degree is not granted on the basis of a student having successfully completed a certain number of courses, but upon evidence of scholarly attainment as demonstrated especially by examinations and competence in research.

**Research Tool Requirement for an Ed.D.:** Ed.D. candidates are expected to have developed research competencies appropriate to doctoral candidates in their fields. These involve proficiencies in quantitative and/or qualitative research and may include such areas as statistics, measurement and evaluation, and field studies/ethnography.

**Comprehensive/Preliminary Examinations:** The comprehensive/preliminary examination is written or, written and oral. It covers the major and any minor fields. It also is concerned with the student's professional competence and ability to undertake independent research. The examination can not be taken more than three times.

**Admission to Candidacy:** A Doctor of Education student will be admitted to candidacy after: 1) a Plan of Study has been submitted to the Graduate School and approved; 2) the comprehensive/preliminary examination has been successfully completed and reported to the Graduate School; 3) the research tool requirement has been met; and 4) the dissertation proposal has been approved by the dissertation committee and reported to the Graduate School.

**Registration for Dissertation Work:** Fifteen semester hours of 599 dissertation research are required for the Ed.D. degree. Any student using the services of the academic staff or the facilities of the University must be registered for the semester or term during which the services are rendered or facilities are used. Also, to register for 599 the student must actually be working on the research under the direction of the adviser or dissertation chairperson.

**Continuous Registration:** Once admitted to candidacy in a Doctor of Education degree program, as defined by the Admission to Candidacy policy, and after the student has completed all course work on the Plan of Study and the required number of hours (15) of 599 dissertation research, the student is required to maintain continuous registration until the deposit of the final dissertation in the Graduate School. The requirement for continuous registration may be fulfilled by contacting the Graduate School to request registration. The requirement for continuous registration does not apply during a summer term unless the student is graduating in that term. Registration for 599.01 may be in absentia. If circumstances prohibit continuous registration a student must request a leave of absence from the department and then from the Graduate School. Any student interrupting registration without obtaining a leave of absence must pay tuition for one credit hour of 599.01 for each of the delinquent semesters upon reenrollment and/or reinstatement. Any student requesting reinstatement in a degree program after a lapse of one calendar year must direct an application for readmission to the Admissions Office.

**Dissertation Committee For Ed.D.:** A dissertation is written under the direction of a dissertation committee appointed in a manner specified by the department. The committee must consist of three (3) members from within the department and may include additional internal or external members at the department's discretion. Proposed committee members who are not members of the Illinois State Graduate Faculty must be approved by the Graduate School. All committee members must have terminal degrees.

**Dissertation Proposal For Ed.D.:** The student is required to file an approved Proposal for Research with the department at the time and in a manner specified by the department. The title, scope, and design of the dissertation must be approved by the student's dissertation committee. Institutional policy requires that all research involving human subjects be reviewed by the Institutional Review Board (IRB). Research involving animals must be reviewed by the Institutional Animal Care and Use Committee (IACUC). A copy of the Dissertation Proposal approval form shall be deposited in the Graduate School no later than the early part of the semester or term in which completion of the doctoral degree is expected, in accordance with the deadlines published by the Graduate School.

While the dissertation for the Ed.D. may meet the expectation for independent research and an original contribution to knowledge, it is customary to allow greater flexibility for the Ed.D. dissertation, so that it may, for instance, involve the application of existing knowledge or theory to a practical educational problem or situation.

**Dissertation Acceptance:** The dissertation must be tentatively accepted by the dissertation examiner of the Graduate School before the distribution of the final examination copies. The examiner will check the dissertation to ensure that the dissertation is consistent with the selected dissertation style and the *Guide for Writers of Doctoral Dissertations* published by the Graduate School.

After tentative acceptance by the examiner the student must file two unbound examination copies of the dissertation in the departmental office at least one week (seven days) before the dissertation defense. The defense of the dissertation is open to the academic community of the University. The chair of the examining committee will notify the Graduate School of the date, time, location and tentative title of the dissertation two weeks prior to the defense. The Graduate School will notify the University community of the public presentation. Subject to reasonable expectations of the chair of the student's committee, visitors may participate in questioning and discussion relevant to the topic of the dissertation. However, only members of the student's committee will vote and make a final recommendation on the acceptance of the dissertation. The Graduate School or designee and any other members of the Graduate Faculty of that department may be in attendance during the committee's deliberations. Following the defense the student must file in the Graduate School the original and a copy of the approved dissertation, unbound, with any corrections suggested by the committee. Before a dissertation is finally accepted by the Graduate School, it will be examined again to verify corrections and conformity to University requirements. The student is not required to have the dissertation printed but will be required to pay the expense of microfilming for distribution. After binding, the original and copy of the dissertation will be placed on file in the University library.

To be eligible for graduation a student must deposit the dissertation in the Graduate School office at least 10 days before the end of the semester or by the deadlines published by the Graduate School. Dissertations filed after that date will be credited toward graduation the following semester or session.

## Doctor of Philosophy

The Doctor of Philosophy degree is designed for the preparation of individuals competent in research and scholarly inquiry whose career objectives are generally in research, teaching, consultation, or leadership roles in universities, colleges, institutes, educational agencies or private practice.

### Program Requirements

**Admission:** Students seeking admission to a Doctor of Philosophy (Ph.D.) degree program must submit letters of recommendation and scores on the General Test of the Graduate Record Examination. Students may be required to come to the campus for an interview. Admission to a Ph.D. program will take account of personal and professional qualifications as well as scholastic records and measurement of academic ability. Admission to a Ph.D. program requires a level of preparation equivalent to a master's degree in an appropriate discipline from an accredited institution. Departments may make exceptions in specific cases. Admission requires approval by both the department and the Graduate School.

**Academic Adviser:** Each department is responsible for advising each student upon admittance to the program and informing the student of the source of this assistance. The student's Plan of Study must have the approval of appropriate departmental officials and the Graduate School and should be submitted early in the student's program.

**Minor Fields:** A Doctor of Philosophy student may select a

minor field (or fields) of study. The selection and composition of a minor field (or fields) must have the approval of the Graduate School and the major and minor departments. A minor field may, under certain circumstances, be in the same department as a major field.

**Doctoral Residency:** There is a full-time residency requirement of at least two terms. A term may be a semester or a summer session of at least eight weeks. Full-time residency is defined as at least nine semester hours of course work during a semester or six semester hours during a summer session. Departments may add additional residency requirements to the minimum stated above.

### Purposes of a Doctoral Residency:

1. To orient and prepare graduate students to meet academic expectations and engage in activities that are associated with involvement in a scholarly environment as they pursue their doctoral degree.
2. To engage graduate students in the process of inquiry appropriate to their area of interest, discipline, and method of investigation.
3. To stimulate the intellectual, personal, and social development of graduate students through mentoring and other activities involving faculty, other students and other professionals.
4. To provide access to libraries, laboratories, and other instructional materials including computers and other technologies that support the intellectual development of students.

Each student will file a Declaration of Residency for approval of the department prior to entering into residency. The department will verify the completion of residency and then file the declaration with the Graduate School. Any exceptions to the above requirements must have the approval of the department and the Graduate School.

**Time Limitations:** All requirements for a Ph.D., including the dissertation, must be completed by the end of eight calendar years beginning with the date the student first registers as a Doctor of Philosophy degree student. This time limit applies to enrollment in all graduate course work in the student's program. If a course taken to complete the requirements for the Ph.D. degree is not taken within the eight-year period allowed for the degree program, the student's department may require the student to retake the course for credit or allow the student to demonstrate current knowledge of the subject matter. If the latter is used, currency must be demonstrated to the satisfaction of the department offering the course through successful completion of an appropriate examination or other assessment if available from the department. Courses from other institutions falling outside the limitation of time may not be used in a graduate program. When graduate study is interrupted by military service or other contingencies, the eight-year limit may be extended by the Graduate School. A Request to Extend Time to Complete Graduate Degree Program must be completed by the student, graduate coordinator, and, if applicable, dissertation, and submitted to the Graduate School for approval/denial.

**Course Requirements:** A Doctor of Philosophy degree is not granted on the basis of a student having successfully completed a certain number of courses, but upon evidence of scholarly attainment as demonstrated especially by competence in research.

**Research Tool Requirement for a Ph.D.:** Candidates are expected to have developed research competencies appropriate to doctoral candidates in their field. These competencies may include areas such as computer science, statistics, qualitative analysis, and foreign language. Each department shall establish and verify cur-

rency of each candidate's research competency except when a foreign language is used as part of this competency.

When a language is used in meeting a research competency, this requirement can be met by one of the following:

1. Obtaining a satisfactory score on a University administered language examination approved by the Graduate School available in French, German, or Spanish. Ph.D. candidates who wish to complete a proficiency examination in a language other than French, German, or Spanish in lieu of appropriate course work should contact the Graduate School.
2. Earning a B grade or better in a 116-level foreign language course at Illinois State University or the equivalent from another institution. The Graduate School has the responsibility of certifying the acceptable level of proficiency has been met.
3. Satisfying other requirements as determined by the department with approval by the Graduate School.

Students whose native language is not English may, with departmental approval, petition the Graduate School to substitute proficiency in the English language as fulfillment of one of the required tools. Proficiency in English as a second language is demonstrated by skills sufficient to give and comprehend lectures in the field of specialization, to respond to questions relating to the specialization as well as to read the language without the aid of a dictionary. The student's major department shall furnish evidence to the Graduate School that advanced English proficiency has been achieved.

**Comprehensive/Preliminary Examination:** The comprehensive/preliminary examination is written or written and oral. It covers the major and any minor fields. It also is concerned with the student's professional competence and ability to undertake independent research. The examination can be taken no more than three times.

**Admission to Candidacy:** A Doctor of Philosophy student will be admitted to candidacy after: 1) a Plan of Study has been submitted to the Graduate School and approved; 2) the comprehensive/preliminary examination has been successfully completed and reported to the Graduate School; 3) the research tool requirement has been met; and 4) the dissertation proposal has been approved by the dissertation committee and reported to the Graduate School.

**Registration for Dissertation Work:** Fifteen semester hours of 599 dissertation research are required for the Ph.D. degree. Any student using the services of the academic staff or the facilities of the University must be registered for the semester or term during which the services are rendered or facilities are used. Also, to register for 599 the student must actually be working on the research under the direction of the adviser or dissertation chairperson.

**Continuous Registration:** Once admitted to candidacy in a Doctor of Philosophy degree program, as defined by the Admission to Candidacy policy, and after the student has completed all course work on the Plan of Study and the required number of hours (15) of 599 dissertation research the student is required to maintain continuous registration until the deposit of the final dissertation in the Graduate School. The requirement for continuous registration may be fulfilled by contacting the Graduate School to request registration. The requirement for continuous registration does not apply during a summer term unless the student is graduating in that term. Registration for 599.01 may be in absentia. If circumstances prohibit continuous registration a student must request a leave of absence from the department and then from the Graduate School. Any student interrupting registration without obtaining a leave of absence

must pay tuition for one credit hour of 599.01 for each of the delinquent semesters upon reenrollment and/or reinstatement. Any student requesting reinstatement in a degree program after a lapse of one calendar year must direct an application for readmission to the Admissions Office.

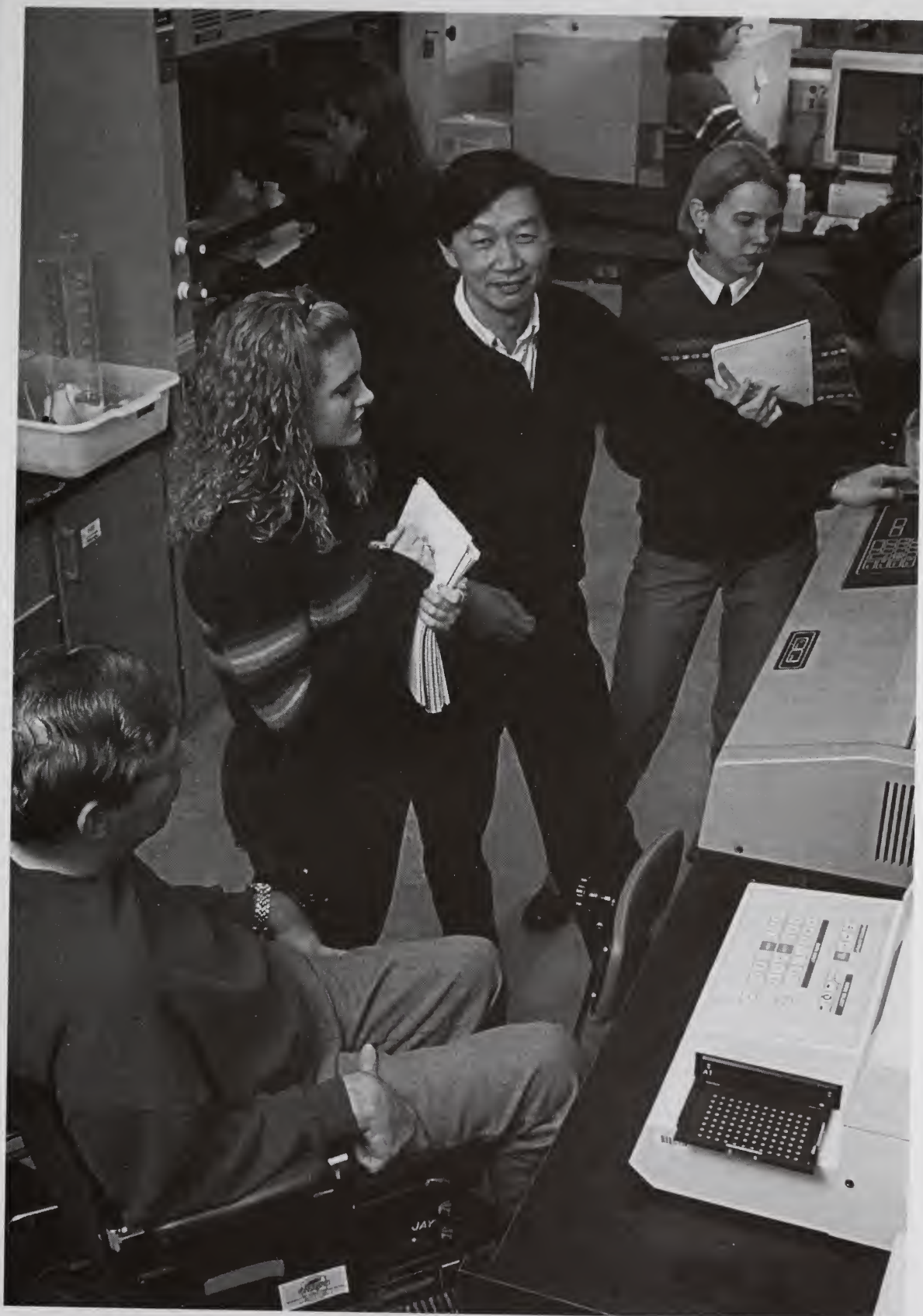
**Dissertation Committee For Ph.D.:** A dissertation is written under the direction of a dissertation committee appointed in a manner specified by the department. The committee must consist of three (3) members from within the department and may include additional internal or external members at the department's discretion. Proposed committee members who are not members of the Illinois State Graduate Faculty must be approved by the Graduate School. All committee members must have terminal degrees.

**Dissertation Proposal For Ph.D.:** The student is required to file an approved Proposal for Research with the department at the time and in a manner specified by the department. The title, scope, and design of the dissertation must be approved by the student's dissertation committee. Institutional policy requires that all research involving human subjects be reviewed by the Institutional Review Board (IRB). Research involving animals must be reviewed by the Institutional Animal Care and Use Committee (IACUC). A copy of the Dissertation Proposal approval form shall be deposited in the Graduate School no later than the early part of the semester or term in which completion of the doctoral degree is expected, in accordance with the deadlines published by the Graduate School. The dissertation for the Ph.D. must involve independent research and an original contribution to knowledge.

**Dissertation Acceptance:** The dissertation must be tentatively accepted by the dissertation examiner of the Graduate School before the distribution of the final examination copies. The examiner will check the dissertation to ensure that the dissertation is consistent with the selected dissertation style and the *Guide for Writers of Doctoral Dissertations* published by the Graduate School.

After tentative acceptance by the examiner the student must file two unbound examination copies of the dissertation in the departmental office at least one week (seven days) before the dissertation defense. The defense of the dissertation is open to the academic community of the University. The chair of the examining committee will notify the Graduate School of the date, time, location and tentative title of the dissertation two weeks prior to the defense. The Graduate School will notify the University community of the public presentation. Subject to reasonable expectations of the chair of the student's committee, visitors may participate in questioning and discussion relevant to the topic of the dissertation. However, only members of the student's committee will vote and make a final recommendation on the acceptance of the dissertation. The Graduate School or designee and any other members of the Graduate Faculty of that department may be in attendance during the committee's deliberations. Following the defense the student must file in the Graduate School the original and a copy of the approved dissertation, unbound, with any corrections suggested by the committee. Before a dissertation is finally accepted by the Graduate School, it will be examined again to verify corrections and conformity to University requirements. The student is not required to have the dissertation printed but will be required to pay the expense of microfilming for distribution. After binding, the original and copy of the dissertation will be placed on file in the University library.

To be eligible for graduation a student must deposit the dissertation in the Graduate School office at least 10 days before the end of the semester or by the deadlines published by the Graduate School. Dissertations filed after that date will be credited toward graduation the following semester or session.



# PROFESSIONAL DEVELOPMENT SEQUENCE

## Professional Development Sequence in Social Aspects of Aging

Social Aspects of Aging Sequence is a multidisciplinary program designed to offer a limited number of academically and professionally oriented graduate experiences in aging. The sequence is housed in the Graduate School with courses and advisement provided by the following departments: Sociology and Anthropology, Family and Consumer Sciences, Psychology, and Speech Pathology and Audiology.

**Requirements for Admission to the Program:** Potential applicants must have earned a bachelor's degree (or equivalent) and meet the requirements for admission to the Graduate School as students-at-large. Credit for courses may be applied to a graduate degree program if approved by a specific graduate program. Potential applicants may contact the Graduate School or specific department advisers for application forms and further information.

**Sequence Requirements:** Twelve (12) hours required, which include 1) Seminar in Gerontology (3 hours) to be taken after at least six of the other required hours have been completed, and 2) 9 hours of electives from among the following gerontology related courses:

### Required Course (3 hours)

**Seminar in Gerontology (SOC 469.08)** Advanced treatment of gerontology including approximately one-third in overview of current gerontological issues plus selected topics in gerontology, e.g. Economics of Aging, Cross-Cultural Aspects of Aging, the Future of Aging.

### Elective Courses (9 hours)

**Health Aspects of Aging (HSC/FCS 394)** Characteristics of the aging process and factors influencing adaptation and the quality of living.

**Gerontological Psychology (PSY 304)** Psychological aspects of developmental transformations occurring during later adulthood. Application of psychology to problems of aging.

**Human Communication and the Aging Process (COM 331)** An examination of the particular communication needs of the aging and current research in the field.

**Families in Later Life (FCS 305)** Exploration of family dynamics in later life. Emphasis on developmental tasks, needs, and decision-making issues of aging family members.

**Experience in Gerontology** Each student enrolled in the Sequence may negotiate with the Sequence Representative in the sponsoring department credit for 3 hours of "experience" in gerontology. This may include, but is not limited to, 400 Independent Study or 498 Professional Practice in any department/program which is relevant to the Sequence. Each "experience" is expected to involve some focused writing and analysis assignments. This experience should ordinarily be permitted after other courses are completed -- at least *Seminar in Gerontology*. If the experience is of a "selected problems" type, a proposal should be approved by the departmental Sequence Adviser no later than the fifth week of the semester.



# COLLEGES, DEPARTMENTS AND COURSE OFFERINGS

Each student should assume responsibility for knowing the requirements for graduate programs and for complying with current regulations.

## Course Numbering System

This Graduate Catalog contains courses numbered 300 to 599. Courses 300-399 are advanced undergraduate courses and are open to juniors, seniors, and graduate students. Only 300-level courses listed in the Graduate Catalog are available for graduate credit. To receive graduate credit, students must complete applicable graduate requirements provided in the course syllabus. Courses 400-499 are graduate courses. Courses 500-599 generally are limited to terminal degree students in programs such as the Ed.D., M.F.A., and Ph.D.

The following information is given for each course, in the following order: course number (3 digits preceding the title), course title and credit value (in semester hours). Following the course description any prerequisites, restrictions on enrollment, and any special considerations are noted.

**Limitation of credit:** Candidates for a master's degree may present no more than 9 hours of credit from the asterisk courses toward their degrees (393, 397, 400, 493, and 498).

Workshops, Institutes and Professional Practice may be offered as graduate courses on a Credit/No Credit (CR/NC) basis. For these courses, students receive a grade of CR (Credit) or NC (No Credit). Departments may offer 393, 397, 429X, 493 and 498 on a CR/NC basis with approval in advance by the Department and the Graduate School. CR/NC courses cannot be computed in the GPA. To count towards a degree program, CR/NC courses must be approved through the curricular process.

## General Courses

### 389 SELECTED STUDIES

1-6 sem. hrs.

Course work not offered within the framework of existing departmental courses. The topic to be covered will be identified in the class schedule booklet each semester. Experimental courses and courses cutting across the departmental lines may be offered as selected studies.

### 393 WORKSHOP\*

1-6 sem. hrs.

Advanced workshop for juniors, seniors and graduate students. Credit will be given by the department offering the workshop. See statement on limitation of credit above.

### 397 INSTITUTE\*

1-9 sem. hrs.

Federal and state sponsored institutes or similar short term programs requiring treatment of subject matter of a special nature or for special groups. See statement on limitation of credit above.

### 400 INDEPENDENT STUDY\*

1-4 sem. hrs.

A maximum of six hours may be applied toward a master's degree. Intensive study in a special area of the advanced student's interest under a qualified member of the faculty. Each individual investigation is to culminate in a comprehensive written report and/or examination. Open only to graduate students who have completed considerable work in a degree pro-

gram, who are in good academic standing, and who have demonstrated ability to profit from independent study. A written proposal approved by the faculty member, the student's adviser, and the department chairperson is required prior to registration. See statement on limitation of credit above. See Research with Human and Animal Subjects in the Academic Policies and Procedures section.

### 429X PROFESSIONAL DEVELOPMENT WORKSHOP

1-6 sem. hrs.

Intensive and applied workshop for graduate students. Designed as an opportunity for updating skills and knowledge and intended primarily for teachers and other inservice professionals. Credit will be given by the department offering the workshop. **Not for credit toward a graduate degree program.**

### 489 ADVANCED STUDY

1-6 sem. hrs.

Advanced course work not offered within the framework of existing departmental courses. The topic to be covered will be identified in the class schedule booklet each semester. Experimental courses and courses cutting across departmental lines may be offered as advanced studies.

### 493 WORKSHOP\*

1-6 sem. hrs.

Intensive and applied workshop for graduate students. Designed as an opportunity for acquiring advanced knowledge and intended primarily for teachers and other inservice professionals. Credit will be given by the department offering the workshop. See statement on limitation of credit above.

### 498 PROFESSIONAL PRACTICE\*

1-12 sem. hrs.

Supervised work experience in local, state, national, and international businesses, agencies, institutions, and organizations. The experience is planned, administered, and supervised at the departmental level and coordinated through Professional Practice. If the site is in an educational agency or institution, the placement must be approved by the Office of Clinical Experiences and Certification Processes. Written objectives and modes of evaluation shall be approved by the faculty supervisor and department chairperson prior to the beginning of the semester. **In a degree program, Professional Practice 498 cannot constitute more than 20% of the hours applied for graduation.** Open only to graduate students who have completed considerable work in a degree program, who are in good academic standing, and who have demonstrated ability to profit from professional practice experience. See statement on limitation of credit above. All departments that wish to offer 498 Professional Practice must have a curriculum proposal approved by Professional Practice and by the Graduate Curriculum Committee prior to use.

### 499 MASTER'S THESIS

1-6 sem. hrs.

A student electing the thesis option must take from four to six hours of 499. While registration beyond six hours may be permitted for the convenience of the student, he/she may not count more than a total of six hours of 499 among the 32 required for the master's degree.

**500 INDEPENDENT STUDY\***

1-4 sem. hrs.

A maximum of twelve hours may be applied toward the Master of Fine Arts and the Doctoral degree. Intensive study in a special area of the advanced student's interest under a qualified member of the faculty. Each individual investigation is to culminate in a comprehensive written report and/or examination. Open only to graduate students who have completed considerable work in a degree program, who are in good academic standing, and who have demonstrated ability to profit from independent study. A written proposal approved by the faculty member, the student's adviser, and the department chairperson is required prior to registration. See statement on limitation of credit above. See Research with Human and Animal Subjects in the Academic Policies and Procedures section.

**589 ADVANCED DOCTORAL STUDY**

Doctoral-level course work under a qualified member of the graduate faculty, in subject matter not offered within the framework of existing departmental courses. The topic to be covered will be identified in the class schedule booklet each semester.

**598 PROFESSIONAL PRACTICE**

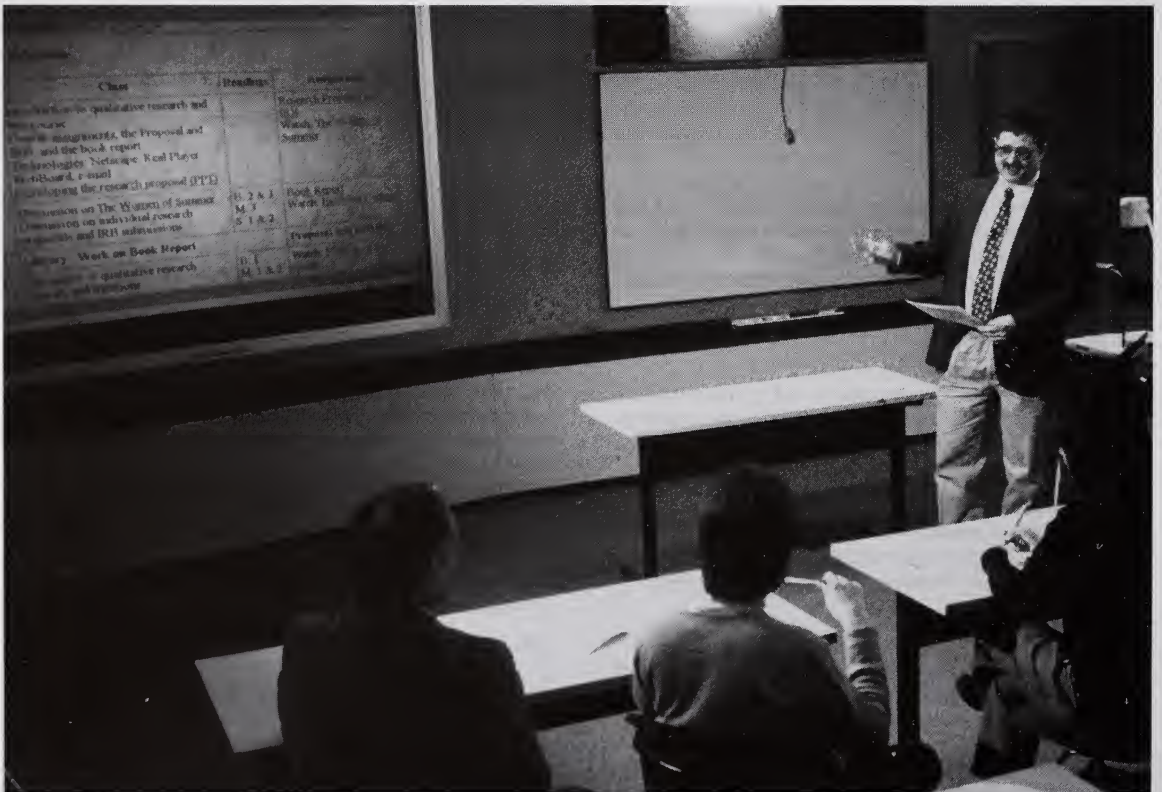
1-12 sem. hrs.

Supervised work experience in local, state, national, and international businesses, agencies, institutions, and organizations. The experience is planned, administered, and supervised at the departmental level and coordinated through Professional Practice. If the site is in an educational agency or institution, the placement must be approved by the Office of Clinical Experiences and Certification Processes. Written objectives and modes of evaluation shall be approved by the faculty supervisor and department chairperson prior to the beginning of the semester. Open only to doctoral students. All departments that wish to offer 598 Professional Practice must have a curriculum proposal approved by Professional Practice and by the Graduate Curriculum Committee prior to use.

**599 DOCTORAL RESEARCH**

1-15 sem. hrs.

Research involving the gathering of data to form the basis of the doctoral dissertation. For further information refer to the appropriate degree in the section on Fields of Study and Degrees Granted.



# COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY

**Dean:** J. Robert Rossman, 143 Turner Hall.

The College of Applied Science and Technology offers graduate programs that are designed to provide advanced preparation for professional and technical positions in education, community agencies, government, business, and industry. Graduate education is focused on the development and integration of knowledge into theory based professional practice.

The College offers the Master of Science degree in seven departments including Agriculture; Applied Computer Science; Criminal Justice Sciences; Family and Consumer Sciences; Health, Physical Education, and Recreation; Health Sciences; and Industrial Technology. The Departments of Criminal Justice Sciences and Family and Consumer Sciences also offer Master of Arts degrees. Descriptions and requirements of these programs are outlined in the copy that follows.

## AGRICULTURE (AGR)

**Chairperson:** J.R. Winter. Office: 150 Turner Hall.

**Graduate Program Director:** Kerry Tudor.

**Graduate Faculty:** T. Cade, M. Gomez, A. Moore, P. O'Rourke, K. Smiciklas, K. Tudor, P. Walker, R. Whitacre, J. Winter, J. Wood.

### Master's Degree in Agribusiness

The department offers work leading to the Master of Science degree in Agribusiness. University requirements for master's degrees are listed elsewhere in this catalog.

All courses, including transfer courses, must be listed on the Plan of Study and approved by the graduate coordinator, chairperson, and Dean of the Graduate School. A student may choose between: (I) 39 semester hour program including a thesis (thesis option); or (II) 39 semester hour program including a synthesizing experience and a comprehensive examination (non-thesis option).

### Admission Requirements

Admission to the master's degree program requires submission of a transcript of an undergraduate degree with a minimum GPA of 2.75 (A=4.00) during the last 60 hours. Admission to the program also requires completion of the GRE and approval of the Department of Agriculture.

### Academic Advisement

Students seeking a master's degree in Agribusiness should meet with the department Graduate Program Director prior to enrollment in graduate courses. Deficiencies, if any, will be determined and a graduate adviser assigned. The student and adviser will plan the graduate program and submit the Plan of Study required by the Graduate School for the graduate coordinator's and chairperson's approval after the student completes 12 semester hours.

### Curriculum Requirements

Students may select one of two options (thesis or non-thesis) in completing the M.S. degree. In either option, majors must complete required core courses (fifteen hours) consisting of AGR 497, MKT 430, MQM 421, and two of the following courses: MQM 416, 420, FIL 411, 440, MKT 431, or ACC 450. Students must also complete nine hours of advanced agribusiness courses selected from AGR 418, 420, 422, 424, and 445.

**Option I:** Option I is a 39 hour program that requires a thesis. Students selecting this option will complete the core requirements of fifteen hours, nine hours of advanced agribusiness courses, six hours of Master's Thesis (AGR 499), and nine hours of electives selected from the list below to meet the minimum of 39 semester hours.

**Option II:** Option II is a 39 hour program that requires a synthesizing experience consisting of three hours of Independent Study (AGR 400) under the direction of a major adviser and with the approval of the advisory committee. Students selecting this option will complete the core requirement of fifteen hours, nine hours of advanced agribusiness courses, and twelve hours of electives selected from the list below to meet the 39 semester hour requirement. Students selecting this option must also pass a comprehensive written/oral examination.

**Elective Courses:** The following courses are acceptable to satisfy the elective courses requirement for the M.S. Degree in Agribusiness: AGR 310, 312, 313, 314, 315, 316, 318, 319, 320, 340, 352, 353, 355, 356, 357, 358, 363, 372, 375, 383, 418, 420, 422, 424, 445; ACC 332, 334, 340, 450, 468; FIL 340, 341, 343, 344, 411, 440, 441; MQM 301, 323, 324, 325, 326, 353, 354, 416, 420, 423; MKT 329, 333, 337, 431; ECO 320, 326, 327, 328, 330, 331, 335, 345, 346, 350, 351, 353, 355, 360, 372, 404, 405, 415, 416, 435, 438, 439, 440, 441, and 445.

## Courses

### 302 SPECIAL PROBLEMS IN AGRICULTURE

1-3 sem. hrs.

Special work in research interests of student and staff. Projects must be approved by the staff member and the chairperson of the department. Prerequisite: Comprehensive major or minor in AGR, or Agribusiness. May be repeated. Max. 6 hours.

### 303 SEMINAR IN AGRICULTURE

1 sem. hr.

Senior or graduate standing.

### 310 RURAL APPRAISALS

3 sem. hrs.

Principles, procedures, and terminology for evaluating rural property; preparation of appraisal reports as currently prepared by qualified and experienced rural appraisers. Prerequisites: AGR 216 or 318 or ACC 131 recommended, and an academic background in agriculture.

### 312 ADVANCED FARM ACCOUNTING

3 sem. hrs.

Advanced farm business records and analysis with emphasis on computer applications. Prerequisites: AGR 213 and 216 required.

### 313 ADVANCED FARM MANAGEMENT

3 sem. hrs.

Farm business decisions and their interrelationships. Examination of statics, dynamics and uncertainty in agricultural decision-making. Prerequisites: AGR 213, 216.

**314 GRAIN MARKETING****3 sem. hrs.**

Economics and marketing problems in grain industry. Special emphasis on futures marketing. Prerequisite: AGR 214.

**315 FINANCIAL MANAGEMENT AND ANALYSIS OF THE AGRIBUSINESS FIRM****3 sem. hrs.**

Application of quantitative concepts and methods to the analysis and financial management of proprietary and cooperative agribusiness firms. Prerequisites: AGR 215; MAT 120; AGR 216 or ACC 131, or consent of instructor.

**316 LIVESTOCK MARKETING****3 sem. hrs.**

Economic principles applied to marketing of livestock and livestock products. Consideration given to producers, processors, and distributors. Prerequisite: AGR 214.

**318 AGRICULTURE FINANCE****3 sem. hrs.**

The principles of agriculture finance including the capital requirements, the sources of credit, and the optimum uses of capital. Prerequisite: AGR 216 or ACC 131.

**319 AGRICULTURAL POLICIES AND PROGRAMS****3 sem. hrs.**

History and impact of government intervention in agriculture. Examination of major agricultural programs, past and present. Prerequisite: AGR 110.

**320 FARM COMMODITY PRICING****3 sem. hrs.**

Analysis of the theory and mechanics of price determination for agricultural commodities. Prerequisite: AGR 214.

**340 EQUIPMENT FOR PRODUCING AND HANDLING AGRICULTURAL PRODUCTS****3 sem. hrs.**

Selection, design, operation, adjustment and maintenance of machinery and equipment used in producing, storing, and processing agricultural products. Prerequisite: AGR 130. Lecture and laboratory. Field trips.

**352 TURF MANAGEMENT****3 sem. hrs.**

Principles and practices used in management of turf grasses, residential and recreational turf. Prerequisite: AGR 150 or BSC 192.

**353 LANDSCAPE DESIGN AND CONSTRUCTION****3 sem. hrs.**

Problem approach to landscape design and construction. Site surveys and analyses. Plant selection and preparation of functional designs. Lectures and practice in landscape design. Prerequisites: AGR 252 and 255.

**355 PLANT BREEDING AND BIOTECHNOLOGY****3 sem. hrs.**

Breeding procedures and techniques used in developing new varieties of field crops. Prerequisite: AGR 272 or equivalent.

**356 PLANT PROPAGATION****3 sem. hrs.**

Basic principles and commercial practices involved in sexual and asexual propagation of agricultural plants. Prerequisite: AGR 150 or BSC 192. Lecture and laboratory. Offered odd numbered years. Materials charge optional.

**357 SOIL FERTILITY AND FERTILIZERS****4 sem. hrs.**

Fundamental concepts of soil fertility and fertilizer manufacturing. Plant nutrition, factors affecting plant growth, soil-plant relationships, and macro- and micro-nutrients. Prerequisite: AGR 157. Lecture and laboratory. Field trips.

**358 SOIL MANAGEMENT****4 sem. hrs.**

The application of physical and chemical properties of soils to their management. Prerequisite: AGR 157.

**363 AGRICULTURAL EXPERIMENTATION****3 sem. hrs.**

Principles of agricultural research for plant and animal sciences; includes design, data collection, interpretation, and presentation of results. Prerequisites: MAT 120 or 144. Lecture and lab.

**372 LIVESTOCK BREEDING****3 sem. hrs.**

Reproduction and principles of heredity and their application to livestock breeding; population genetics, inbreeding, relationship, outbreeding, and selection. Prerequisite: AGR 272 or BSC 319.

**375 ANIMAL NUTRITION****3 sem. hrs.**

Science of animal nutrition; special attention to recent discoveries pertaining to the protein, mineral and vitamin requirements of livestock. Prerequisites: AGR 170, 171. Field trips. Offered odd numbered years.

**383 AGRICULTURAL ACCIDENT PREVENTION****3 sem. hrs.**

Major problems of accident causation and prevention applicable to agriculture and the need for farm safety education, engineering, and enforcement countermeasures. Half-day field trip. Prerequisites: CHE 110, 140, or consent of instructor, or admission to EH&S graduate program. Also offered as HSC 383.

**394 METHODS AND PROCEDURES IN AGRICULTURAL EDUCATION****5 sem. hrs.**

Procedures in planning, conducting, and evaluating an agricultural education program; philosophical inquiry in education; teaching special needs students. Includes clinical experiences.

**400 INDEPENDENT STUDY****1-4 sem. hrs.**

Refer to Index for General Courses.

**418 ADVANCED AGRICULTURAL FINANCE****3 sem. hrs.**

Advanced principles of agricultural finance, including investment analysis, resource control, legal aspects of lending, and sources of capital. Prerequisite: AGR 315 or 318 or consent of instructor.

**420 MANAGEMENT OF MARKET RISK IN AGRIBUSINESS****3 sem. hrs.**

An examination and analysis of the techniques used by agribusinesses for managing the risk associated with variable and unknown commodity prices. Prerequisite: AGR 314 and 320 or consent of instructor.

**422 INTERNATIONAL TRADE OF AGRICULTURAL PRODUCTS****3 sem. hrs.**

Examination of the gains from trade and the impact of agricultural trade policies on the welfare of trading nations. Prerequisite: ECO 240 and 241 or consent of instructor.

**424 AGRIBUSINESS STRATEGY AND ANALYSIS****3 sem. hrs.**

Advanced application of quantitative and qualitative analysis in the development and implementation of Agribusiness firm strategy and policy. Prerequisite: Admission to Agribusiness graduate program or consent of instructor.

**445 STATISTICS IN APPLIED SCIENCE  
AND TECHNOLOGY**  
3 sem. hrs.

Descriptive and inferential statistics in the applied sciences; statistical analysis using microcomputer applications. Also offered as FCS/HPR/HSC/IT 445.

**497 RESEARCH METHODOLOGY IN  
AGRIBUSINESS**  
3 sem. hrs.

The procedure, techniques, and application of research methods in agribusiness. Problem identification and analysis, experimental design and report presentation. Prerequisite: Admission to Agribusiness graduate program or consent of instructor.

## APPLIED COMPUTER SCIENCE (ACS)

**Chairperson:** Robert Zant. Office: 202 Old Union.

**Graduate Program Director:** David Doss

**Graduate Faculty:** B. Beccue, L. Brumbaugh, M. E. Califf, C. Chrisman, J. Coliz, G. Crow, D. Doss, T. Gyires, J. Hartman, B. Lim, M. Myerscough, R. Rariden, T. Schambach, J. Vila, D. Wallace, K. Walstrom, R. Zant.

### Master's Degree in Applied Computer Science

The Master of Science program in Applied Computer Science emphasizes the application of computers to real-world problem solving, focusing principally on software- and people-related issues in the development of computer applications. It is appropriate for a range of students, including industry practitioners seeking career advancement, students wishing to expand on their undergraduate computing work, and individuals wishing to make a career change. Students may pursue either a project or thesis option.

#### Admission Requirements

All University and Graduate School requirements for admission to a degree program of the Graduate School apply. Additional department requirements are listed below.

Applicants must submit scores from the Graduate Record Examination (GRE) General Aptitude test. The GRE Verbal and Quantitative scores should each exceed 400, and the sum of these two scores is expected to exceed 1100.

Applicants must have a bachelor's degree from an accredited university or college and must have a grade point average (GPA) of at least 3.0 (B) on a 4.0 scale, calculated over the last 60 hours taken (either graduate or undergraduate). The undergraduate degree need not be in computing. International students must present a TOEFL score of at least 570 (computer-based 230).

Minimum programming background for the graduate program consists of the equivalent of one year of programming in a high level language as well as an understanding of basic data structures and file organizations. Facility with C++, the programming language used in departmental core courses, is expected. Introductory knowledge of systems analysis and design and of database concepts is also required. In addition, knowledge and experience with microcomputers is expected. Knowledge of a second programming language is recommended. Students lacking this background may be admitted, but will be required to take selected undergraduate courses as program deficiencies, as approved by the ACS Graduate Program Director.

Students may be admitted to the ACS program at any time during the academic year, but preference is given to student applications received by March 1 for fall (August) admission and by October 1 for spring (January) admission.

Full-time students in the ACS program should expect to spend at least two years to complete the masters program once deficiency course work has been completed.

All 400-level courses in the Applied Computer Science department have restricted enrollments and are not open to graduate-students-at-large. Opportunities for non-ACS majors, including GSALs and graduate students in other majors, to take undergraduate and 3xx.05-level computer courses are also limited, and permission to register must be obtained from the graduate advisor (OU 302). Such students may be required to furnish official transcripts which show the degree earned and the prerequisites for the course in which the student is seeking enrollment.

#### Curriculum Requirements

To provide a broad common background, each student is required to select, in consultation with a graduate adviser, one course from each of the following Core Areas:

Software Development	ACS 460*
Data Communications	ACS 375.05 or ACS 475
Database	ACS 378.05 or ACS 478
Advanced System Development	ACS 463 or ACS 467
Technical Communications	ENG/IT 349 or MQM 416

\*Students without previous knowledge of Systems Analysis and Design (the equivalent of ACS 363) will need to take ACS 432 as a prerequisite to ACS 460, 463, and 467.

There are two options available within this degree: the **Thesis Option** and the **Project Option**.

The **Thesis Option** requires a minimum of 35 semester hours as follows:

Core Area courses	15 hours
Research methodology	3 hours
ACS 499 (Master's Thesis)	5 hours
Approved ACS electives	12 hours
Total	35 hours

Students pursuing the thesis option must take a course in research methodology no later than the first semester of thesis enrollment (earlier is recommended). A list of approved research courses is available from the ACS Graduate Program Director. Students in the thesis option must complete a minimum of 15 hours of 400-level course work, not counting thesis hours.

The **Project Option** requires a minimum of 39 semester hours as follows:

Core Area courses	15 hours
ACS 494 (Graduate Directed Project)	6 hours
Approved ACS electives	18 hours
Total	39 hours

Students in the project option must complete a minimum of 15 hours of 400-level course work, not counting project hours.

#### Courses

To count a 300-level ACS course as part of a master's degree in Applied Computer Science, students must enroll in a graduate section of the course (e.g., 375.05).

**306.05 BUILDING APPLICATIONS SYSTEMS**  
**3 sem. hrs.**

Creating applications using end user development tools; prototyping; human/software interface design; end user development issues. Prerequisite: ACS 261. Also offered as ACC 368. Not for credit in ACS graduate program.

**325.05 COMPUTER ORGANIZATION**  
**3 sem. hrs.**

Hardware and software topics in computer organization: Instructions, modalities, control units, memories, data paths, uniprocessors and multiprocessors. Prerequisites: ACS 169 and 254.

**326.05 PRINCIPLES OF SOFTWARE ENGINEERING**  
**3 sem. hrs.**

Fundamentals of software engineering. Topics include specification models, metrics, design fundamentals, interface design, quality assurance, and automated tools. Prerequisites: ACS 169 and 261.

**327.05 CONCEPTS OF PROGRAMMING LANGUAGES**  
**3 sem. hrs.**

Survey of pragmatic, syntactic and semantic structure of programming languages. Procedural, logic-oriented, object-oriented and other contemporary languages included. Prerequisite: ACS 169.

**340.05 INTRODUCTION TO ARTIFICIAL INTELLIGENCE**  
**3 sem. hrs.**

Introduction to concepts in artificial intelligence, including: knowledge representation, heuristic search, neural networks, planning algorithms, natural language, and machine learning. Prerequisite: ACS 279 or consent of graduate advisor.

**341.05 OBJECT-ORIENTED SYSTEM DEVELOPMENT**  
**3 sem. hrs.**

Main concepts of object-oriented technology and a comprehensive methodology for system development. Object-oriented analysis, design, and implementation including object-oriented databases. Prerequisite: ACS 169, 261.

**346.05 KNOWLEDGE ENGINEERING**  
**3 sem. hrs.**

In depth study of knowledge-based systems and the knowledge engineering process; use of expert systems tools to construct applications. Prerequisite: ACS 261.

**352.05 MULTIMEDIA TECHNOLOGY APPLICATIONS**  
**3 sem. hrs.**

Practical principles, methods, and tools for the design and development of multimedia applications; authoring languages; multimedia technology hardware and trends. Prerequisite: ACS 261.

**353.05 WEB DEVELOPMENT TECHNOLOGIES**  
**3 sem. hrs.**

Web concepts, infrastructure, development technologies, multi-tiered program design and implementation, and current issues and trends. Prerequisite: C or better in ACS 169 and 261.

**355.05 MICROCOMPUTER APPLICATION AND DESIGN**  
**3 sem. hrs.**

Microcomputer applications with an emphasis on basic microcomputer architecture, interfacing peripherals, system level programming, and system software design. Prerequisites: ACS 169, 254.

**356.05 INTRODUCTION TO COMPUTER GRAPHICS**  
**3 sem. hrs.**

Graphics Systems: hardware, software, people. 2-D and 3-D Algorithms: lines, curves, polygons, surfaces, transformations. Applications: presentation graphics, packages. Concurrent registration in ACS 279 or consent of graduate advisor.

**365.05 SYSTEMS DEVELOPMENT TOOLS AND ISSUES**  
**3 sem. hrs.**

Modern systems development tools, implementation issues related to modern tools, techniques, and methodologies; emerging types of systems being developed. Prerequisite: ACS 261.

**367.05 DESIGNING THE USER INTERFACE**  
**3 sem. hrs.**

Human factors issues in developing information systems: task analysis, user interface design guidelines, psychological principles, prototyping interfaces, and user evaluation. Prerequisite: ACS 261.

**368.05 TOPICS IN INFORMATION SYSTEMS**  
**3 sem. hrs.**

Advanced topics in systems analysis, design, and development or in internet applications and web development. Prerequisites: Vary with offering. May be repeated if content different.

**372.05 EXTERNAL DATA STRUCTURES**  
**3 sem. hrs.**

External file design, VSAM, IBM utilities and sort/merge, basic concepts of IBM/MVS operating systems, and extensive study of JCL. Prerequisite: ACS 254 and 272, or consent of graduate advisor.

**374.05 TOPICS IN TELECOMMUNICATIONS**  
**3 sem. hrs.**

In-depth study of a topic in Telecommunications such as emerging technologies, network administration, network management architectures and wireless communications. Prerequisite: Vary with topic chosen. May be repeated if content different.

**375.05 DATA COMMUNICATIONS**  
**3 sem. hrs.**

Hardware and software used in data communications and networking. Network types, architectures and protocols and standards. Local area and packet networks. Prerequisites: ACS 169, 254.

**377.05 PRACTICAL TELECOMMUNICATIONS NETWORKING**  
**3 sem. hrs.**

Design, configure, operate and use Local Area Networks, network applications, and wide area network concepts. Emphasizing hands-on use of a network operating system. Prerequisite: ACS 375.05.

**378.05 DATABASE PROCESSING****3 sem. hrs.**

Database concepts, emphasis on relational databases, SQL, data modeling, database design, DBMS functions, database application programming, current trends, design project. Prerequisite: ACS 261.

**379.05 TELECOMMUNICATIONS NETWORK OPERATIONS AND MANAGEMENT****3 sem. hrs.**

Overview of process of operating and managing large scale telecommunications networks; capstone course for Telecommunications Management major. Prerequisites: ACS 377.05, IT 383, ECO 235, and MQM 220; or consent of graduate advisor.

**379.05 TELECOMMUNICATIONS NETWORK OPERATIONS AND MANAGEMENT****3 sem. hrs.**

Overview of process of operating and managing large scale telecommunications networks; capstone course for Telecommunications Management major. Prerequisites: ACS 377.05, IT 383, ECO 235, and MQM 220; or consent of graduate advisor.

**382.05 DISTRIBUTED SYSTEMS****3 sem. hrs.**

Overview of distributed systems including system architectures, models, distributed operating systems, distributed algorithms, distributed databases, distributed objects, issues and trends.. Prerequisites: ACS 169, 254, and 261.

**385.05 TOPICS IN COMPUTER SCIENCE****3 sem. hrs.**

In-depth study of a topic such as compiler design, artificial intelligence, programming language, and digital logic design. May be repeated if content different. Prerequisites: Vary with offering.

**388.05 INTRODUCTION TO PARALLEL PROCESSING****3 sem. hrs.**

Study of parallel processors and their software environments. Students will write programs for several parallel computers. Prerequisites: ACS 254 and concurrent registration in 279, or consent of graduate advisor.

**400 INDEPENDENT STUDY****1-3 sem. hrs.**

Prerequisite: Consent of department.

**432 SYSTEMS ANALYSIS AND DESIGN****3 sem. hrs.**

Study of systems development life-cycle emphasizing current techniques for documenting users' requirements and producing maintainable, cost effective systems. Prerequisites: ACS 261 and a two-semester sequence in a high-level programming language. Not for credit if ACS 363 has already been taken.

**440 ARTIFICIAL INTELLIGENCE AND EXPERT SYSTEMS****3 sem. hrs.**

Advanced study of artificial intelligence principles, software, and major areas of application. Emphasis on expert systems. Prerequisites: 2 semester sequence in a high-level programming language.

**451 INFORMATION SYSTEM SECURITY****3 sem. hrs.**

Information system security issues including identification, cost estimation, and control of risks. Prerequisites: ACS 432 or 460.

**460 SOFTWARE DEVELOPMENT PRACTICES****3 sem. hrs.**

Study of modern methods, techniques, and tools for software development. Topics include: end-user computing, prototyping, and productivity tools. Prerequisites: ACS 432 or 363.

**463 CONTROLLING SOFTWARE DEVELOPMENT****3 sem. hrs.**

Techniques for planning and supervising software development projects, allocating resources, projecting costs, and tracking project progress. Prerequisites: ACS 432 or ACS 460.

**467 HUMAN FACTORS IN INFORMATION SYSTEMS****3 sem. hrs.**

Human factors issues in developing information systems: design guidelines, psychological principles, incorporation into a systems development life cycle. Prerequisites: Concurrent enrollment in ACS 432.

**468 SOFTWARE QUALITY ASSURANCE AND TESTING****3 sem. hrs.**

Major techniques for improving software quality; quality assurance, software controls, and software testing. Prerequisite: ACS 432 or 460.

**475 ADVANCED DATA COMMUNICATIONS AND NETWORKS****3 sem. hrs.**

Study of network design, standards, and protocols; hardware and software; layered network architecture; telecommunications access methods; terminals and data streams. Prerequisite: ACS 375.05.

**476 TELEPHONY APPLICATIONS AND DESIGN****3 sem. hrs.**

Evaluation, design, analysis, and deployment of telephony applications and networks. Emphasizing telephony interface, voice/data converged networks, structured wiring standards. Prerequisite: ACS 375.05.

**477 WIDE AREA NETWORKS****3 sem. hrs.**

Advanced principles and design issues underlying wide area networks including network design, routing, and emerging technologies. Prerequisite: ACS 377.05.

**478 ADVANCED DATABASE MANAGEMENT****3 sem. hrs.**

Theory, design, and implementation of application systems using database technology. Data modeling, database administration, database implementation, performance issues, current trends. Prerequisite: ACS 378.05.

**485 ADVANCED TOPICS IN APPLIED  
COMPUTER SCIENCE****3 sem. hrs.**

In depth study of an advanced, state-of-the-art topic. Contents vary each semester. May be repeated. Prerequisites vary with topic offered.

**494 GRADUATE DIRECTED PROJECT****1-4 sem. hrs.**

Software development practicum for graduate students. Designed to integrate computer related skills in an intensive project environment. Prerequisites: Consent of Graduate Program Committee. May be repeated. A maximum of 6 hours may be counted toward a master's degree.

**499 MASTER'S THESIS****1-6 sem. hrs.**

## CRIMINAL JUSTICE SCIENCES (CJS)

**Chairperson:** Thomas Ellsworth, Office: 401 Schroeder Hall.

**Graduate Program Director:** Beverly Smith.

**Graduate Faculty:** S. Cox, T. Ellsworth, D. Falcone, M. Fleisher, M. Henderson-Hurley, S. Kethineni, T. Klosky, J. Krienert, F. Morn, B. Smith, R. Weisheit, L. Wells.

### Master's Degree in Criminal Justice Sciences

The Department of Criminal Justice Sciences offers a program leading to the M.A. or M.S. degree. The primary purpose of the program is to provide students with the skills to analyze crime and criminal justice policies. Those skills prepare students for advanced graduate study and/or careers in the administration of criminal justice. Course work in the program is designed to develop individual thought processes and facilitate the development of analytical abilities and professional skills. Core areas of study include: (1) Research Methods; (2) The Nature of Crime; (3) The Criminal Justice System; and (4) Management and Policy. Through the advanced study of theoretical and applied issues in criminal justice, Master's degree students will be prepared to assume leadership positions in the field of criminal justice at various levels of government or in the private sector or pursue continued graduate education. Study in criminal justice is interdisciplinary, drawing on concepts, theories and applications from psychology, sociology, political science and other social and behavioral sciences.

The curriculum is flexible, permitting students to pursue course work reflective of individual interests and professional goals. The program is designed to provide the students with a basic foundation in the field of criminal justice. Specialization is possible through careful selection of electives in collaboration with faculty mentors and with the approval of the graduate adviser.

Students with an undergraduate degree in a related social or behavioral science are often well prepared to enter the Master's program. Prospective graduate students unfamiliar with the discipline are provided with the Criminal Justice Sciences Reading List. This list includes readings in each of the four core areas and allows the student to become familiar with noted works in the field.

### Admission Requirements

All University and Graduate School requirements for admission to a degree program of the Graduate School will apply.

Additional departmental requirements are listed below. Applicants must have a bachelor's degree from an accredited university or college with a grade point average (GPA) of at least 3.2 on a 4.0 scale in the last 60 hours of undergraduate work. Applicants must submit scores from the Graduate Record Examination (GRE) prior to full admission to the graduate program; scores on the Verbal and Quantitative sections of the General Test should total 950.

Applicants must complete a written statement concerning background, career goals and interest in criminal justice. The statement must be completed and received in the Department office prior to full admission to the graduate program. The Department will supply the forms for the written statement to all applicants.

Each student's transcript and application materials will be reviewed by the Department's graduate adviser and admissions committee during the admission process.

### Program Requirements

The Department offers both thesis and comprehensive examination options for completion of the master's degree. Students choosing the thesis option must complete 32 hours of course work including CJS 499 for six (6) hours of credit. Required courses for the thesis option include CJS 401, 402, 412, 415, 421, 423, 497, 499, and five (5) hours of electives selected with the cooperation of the student's mentor and the approval of the graduate adviser. The electives will be selected from appropriate graduate course offerings in Criminal Justice Sciences, Sociology, Political Science, and other departments. Courses at the 300 level may be taken only with the approval of the graduate adviser.

Students choosing the comprehensive option must complete 34 hours of course work and successfully pass a comprehensive examination in four areas. Required courses for the comprehensive option include CJS 400 (4 hours), 401, 402, 412, 415, 421, 423, 497, and nine (9) hours of electives from appropriate graduate course offerings in Criminal Justice Sciences, Sociology, Political Sciences, and other departments. Courses at the 300 level may be taken only with the approval of the graduate adviser.

### Internship in Criminal Justice Sciences

Each student working toward a Master's degree in Criminal Justice Sciences may enroll in the internship course (CJS 498). The student will be required to work in a criminal justice agency for eighteen hours per week throughout the semester. The internship provides the student with the opportunity to integrate classroom theory with practical experience. The program is designed to acquaint the graduate student with managerial principles and problems, so that he or she will be better qualified to assume management positions in criminal justice. Students will normally not be approved for enrollment in an internship prior to completion of sixteen graduate hours. The department has a full-time internship coordinator who arranges placement, provides supervision, and evaluates student performance.

### Courses

#### 300 EVALUATIVE RESEARCH OF PROGRAMS IN CRIMINAL JUSTICE

**3 sem. hrs.**

Course enables students to analyze research in criminal justice and systematically evaluate the process and outcome of programs in the field. Prerequisite: CJS 101, or consent of department.



**304 CRIMINAL LAW****3 sem. hrs.**

Survey of criminal law including development of substantive criminal law. Examination of judicial opinions related to the criminal justice process. Prerequisite: CJS 101, or consent of department.

**305 RULES OF EVIDENCE FOR THE ADMINISTRATION OF JUSTICE****3 sem. hrs.**

Examination of types of evidence, standards of proof, and legal requirements relating to the admissibility of evidence in court. Prerequisite: CJS 101, or consent of department. POS 326 recommended.

**310 CORRECTIONAL INSTITUTIONS****3 sem. hrs.**

An intensive analysis of correctional institutions and jails focusing on management issues, inmate subcultures and prisonization. Prerequisites: CJS 101, 200, or consent of department. Major/minor only.

**322 COMMUNICATION SKILLS IN CRIMINAL JUSTICE****3 sem. hrs.**

Development of interpersonal communication, interviewing and decision-making skills for intervention with criminal justice clients. Prerequisite: CJS 201, or consent of department.

**338 ALCOHOL, DRUGS, AND CRIME****3 sem. hrs.**

Analysis of the impact of alcohol and drugs on crime and criminal justice system. Prerequisite: CJS 101 or consent of department.

**339 WOMEN IN CRIMINAL JUSTICE****3 sem. hrs.**

Examines historical and theoretical perspectives and contemporary trends concerning women and crime, and processing of women by the criminal justice system. Prerequisite: CJS 101, or consent of department.

**340 ORGANIZED AND WHITE COLLAR CRIME****3 sem. hrs.**

Analysis of organized and white collar crime problems in America. Topics include prevalence, impact, laws, and investigative techniques. Prerequisite: CJS 101, or consent of department.

**360 ISSUES IN CRIMINAL JUSTICE****1-4 sem. hrs.**

A critical and analytical study of a contemporary issue or controversy in the field of criminal justice. May be repeated once (for a maximum of six hours) if content different.

**369 WORLD CRIMINAL JUSTICE SYSTEMS****3 sem. hrs.**

Analysis of crime and criminal justice systems of selected countries. Emphasis upon England, France, Japan, Russia, and India. Prerequisite: CJS 101 or consent of instructor.

**400 INDEPENDENT STUDY****1-4 sem. hrs.**

Refer to Index for General Courses. Majors only.

**401 CRIMINOLOGICAL THEORY****3 sem. hrs.**

An intensive study and critical analysis of criminological theories and their contribution to the field of criminal justice. Majors only.

**402 ISSUES IN JUSTICE****3 sem. hrs.**

A critical review of major contributions to the literature of criminal justice with an emphasis on analysis of problems. May not be repeated. Majors only.

**412 CORRECTIONAL SYSTEMS****3 sem. hrs.**

Critical review and analysis of institutional and community-based corrections as impacted by the political, social, and economic systems. Majors only.

**415 POLICING AND SOCIETY****3 sem. hrs.**

Organizational and operational policing from comparative and historical perspectives which have been derived through statistical, observational and survey methodologies. Majors only.

**421 MANAGEMENT ISSUES IN THE CRIMINAL JUSTICE SYSTEM****3 sem. hrs.**

An examination of selected criminal justice system management issues and problems focusing specifically on law enforcement, the courts, and corrections. Majors only.

**423 INTERVENTION STRATEGIES FOR CRIMINAL JUSTICE PERSONNEL AND CLIENTS****3 sem. hrs.**

A study of intervention strategies utilized to cope with psychosocial human interaction problems in the criminal justice system. Prerequisite: CJS 322 or equivalent. Majors only.

**425 CREATING SAFE SCHOOLS****3 sem. hrs.**

Theory and practice in creating safe schools and generating processes for school disorder prevention and remediation. Prerequisites: Bachelor's degree or advanced undergraduate with permission of instructor.

**464 THEORIES AND TECHNIQUES OF COUNSELING****3 sem. hrs.**

Goals, methods, and procedures of different theoretical positions. Emphasis is on interpersonal dimensions of the counseling interview.

**465 SOCIOLOGY OF FORMAL ORGANIZATIONS****3 sem. hrs.**

Analysis of classical organizational models including: Weberian, Classical Management, Human Relations, Decision Making, and Political Process. Focus on environmental, contextual, structural, process, and performance dimensions of organizations. Offered in SOC.

**467 SOCIOLOGY OF LAW****3 sem. hrs.**

Sociological theories of law and research on law in society. Attention to judicial and jury decision-making, legal structures, legislation, power, beliefs, conflict, and social change. Public, civil, and criminal law included. Offered in SOC and CJS.

**497 INTRODUCTION TO RESEARCH****3 sem. hrs.**

Selection of a research problem, collection of data, types of research, the research report, and use of the library in connection with the research problem. Emphasis on understanding and interpreting frequently used statistical concepts. Provides a background for the preparation of the thesis. Enables the student to become an intelligent consumer of the products of educational research. Prerequisite: CJS 300 or an equivalent undergraduate research/statistics course. Majors only.

**498 PROFESSIONAL PRACTICE IN CRIMINAL JUSTICE****3 sem. hrs.**

Refer to Index for General Courses.

**499 MASTER'S THESIS****1-6 sem. hrs.**

## Family and Consumer Sciences (FCS)

**Chairperson:** Jan Shane. Office: Turner Hall 144.

**Graduate Program Director:** Susan Winchip.

**Graduate Faculty:** M. Canabal, R. Cullen, C. Dyar, M. Garner, D. Gentry, S. Kern, C. Ley, J. Memken, N. Nnakwe, M. Power, J. Shane, S. Winchip.

### Master's Degree in Family and Consumer Sciences

The department offers work leading to the degrees M.A., M.S.

#### Admission Requirements

Each student may choose either: (A) 32 semester hour program which includes a thesis; or (B) 39 semester hour program of course work. For students choosing the 39-hour option, a scholarly project will be required that will be determined by the graduate coordinator in conjunction with the graduate faculty. For admission to the program, students must have a minimum grade point average of 2.8 on a 4.0 scale and GRE verbal score of 420. Students who do not hold an undergraduate degree in family and consumer sciences must complete deficiency work determined by the graduate coordinator. Degree requirements for both the 32 and 39 semester hour options students must complete FCS 408, 412, 445, 497, and IT 349. The 32 hour program requires at least 15 semester hours numbered 400 and above and at least 16 hours in family and consumer sciences. The 39 semester hour program requires at least 18 semester hours in courses numbered 400 or above and at least 20 hours in family and consumer sciences.

A career option leading to general administrative endorsement with emphasis in vocational education is offered in cooperation with the Department of Educational Administration and Foundations through Agriculture, Business Education and Administrative Services, Family and Consumer Sciences, and Industrial Technology departments. Students interested in the vocational emphasis should (A) see department chairperson and (B) submit an Intent to File for Certification form in the Office of Clinical Experiences and Certification Processes. All students who plan to receive certification for the State of Illinois via an approved Illinois State program must file official forms and follow specific procedures. Certification is not given automatically at the completion of specific course work or degree program.

Illinois State University offers an American Dietetic Association accredited Dietetic internship. The 21-month experience is

offered in conjunction with a Master of Science degree in Family and Consumer Sciences. Application to the graduate program is required prior to acceptance into the Dietetic Internship. The program consists of 37 hours of graduate course work which includes 1110 hours of supervised practice. Successful completion of the master's degree requirements, in conjunction with the supervised practice experience, are required to earn an ADA Verification Statement necessary for applying to take the registration examination. In addition to Illinois State Graduate Program application requirements, potential candidates must also follow the American Dietetic Association application guidelines. All applications must be received by the February 15th deadline for the April match. The graduate Food, Nutrition, and Dietetics internship at Illinois State University is currently accredited by the Commission on Accreditation for Dietetics Education of The American Dietetics Association, 216 W. Jackson Blvd., Chicago IL 60606-6995; 312/899-5400.

The Department offers courses in Child Life at the master's degree level. The Family and Consumer Sciences graduate program is registered with the Child Life Council. Completion of these courses prepares students to sit for the Child Life certification examination. An individual plan of study which is based on prior course work at the baccalaureate level will be developed by each student in consultation with the Child Life Director and department graduate coordinator. Minimum requirements include successful completion of department master's degree requirements, two child life seminar courses, and a Professional Practice internship at an approved hospital, supervised by a certified Child Life Specialist.

### Professional Development Sequence in Social Aspects of Aging

Social Aspects of Aging Sequence is a multidisciplinary program designed to offer a limited number of academically and professionally oriented graduate experiences in aging. The sequence is housed in the Graduate School with advisement provided by the Family and Consumer Sciences Department in cooperation with the Departments of: Sociology and Anthropology, Psychology, and Speech Pathology and Audiology.

**Requirements for Admission to the Program:** Potential applicants must have earned a bachelor's degree (or equivalent) and meet the requirements for admission to the Graduate School as students-at-large. Credit for courses may be applied to a graduate degree program if approved by a specific graduate program. (See Policy of Graduate School.) Potential applicants may contact the Graduate School or specific department advisers for application forms and further information.

**Sequence Requirements:** 12 hours required, which includes 1) Seminar in Gerontology (3 hours) to be taken after at least six of the other required hours have been completed, and 2) 9 hours of electives from among the following gerontology related courses:

#### Required Course (3 hours)

**Seminar in Gerontology (SOC 469.08)** Advanced treatment of gerontology including approximately one-third in overview of current gerontological issues plus selected topics in gerontology, e.g. Economics of Aging, Cross-Cultural Aspects of Aging, the Future of Aging.

#### Elective Courses (9 hours)

**Health Aspects of Aging (HSC/FCS 394)** Characteristics of the aging process and factors influencing adaptation and the quality of living.

**Gerontological Psychology (PSY 304)** Psychological aspects of developmental transformations occurring during later adulthood. Application of psychology to problems of aging.

**Human Communication and the Aging Process (COM 331)** An examination of the particular communication needs of the aging and current research in the field.

**Families in Later Life (FCS 305)** Exploration of family dynamics in later life. Emphasis on developmental tasks, needs, and decision-making issues of aging family members.

**Experience in Gerontology:** Each student enrolled in the Sequence may negotiate with the Sequence Representative in the sponsoring department credit for 3 hours of "experience" in gerontology. This may include, but is not limited to, 400 Independent Study or 498 Professional Practice in any department/program which is relevant to the Sequence. Each "experience" is expected to involve some focused writing and analysis assignments. This experience should ordinarily be permitted after other courses are completed - at least *Seminar in Gerontology*. If the experience is of a "selected problems" type, a proposal should be approved by the Departmental Sequence Adviser no later than the 5th week of the semester.

## Courses

### 305 FAMILIES IN LATER LIFE 3 sem. hrs.

Exploration of family dynamics in later life. Emphasis on developmental tasks, needs, and decision-making issues of aging family members.

### 306 SEMINAR IN CHILD LIFE STUDIES 3 sem. hrs.

Application of child development theories and developmentally appropriate practices to children in health care settings. Prerequisites: FCS 101, 212, and 250 or 251. Practicum experience required.

### 307 ADVANCED CHILD DEVELOPMENT APPLICATIONS 3 sem. hrs.

Research in the growth and behavior of the young child as related to family and society. Includes clinical experiences. Prerequisites: FCS 101, 250, and 251. Includes clinical experiences: 32 hours.

### 308 ORGANIZATION AND ADMINISTRATION OF EARLY CHILDHOOD PROGRAMS 3 sem. hrs.

Administration of early childhood programs and community services responsible for guidance of young children. Includes clinical experiences 20 hours, Type 10. Prerequisite: FCS 250 or consent of instructor. Includes clinical experiences.

### 309 COUPLE RELATIONSHIPS 3 sem. hrs.

An interactional approach to the study of intimate male-female pairings: establishing couple relationships and developing effective intimate pairing communications; an overview of marriage enrichment history, programs, practice, theory and research. Prerequisite: FCS 231.

### 310 FAMILY CRISES 3 sem. hrs.

Cognitive and affective exploration of family crisis: definition, management processes, and professional helping resources. Field trips.

### 311 COMMUNITY NUTRITION 3 sem. hrs.

Nutritional needs of selected populations vulnerable to inadequate diet; emphasis on U.S. programs designed for groups at nutritional risk. Prerequisite: FCS 102 or 106.

### 312 MEDICAL NUTRITION THERAPY 4 sem. hrs.

Planning modified diets and studying underlying diseases. Nutritional counseling of individuals and groups. Prerequisite: FCS 317.

### 314 EARLY CHILDHOOD NUTRITION EDUCATION 3 sem. hrs.

Principles of nutrition and current research. Emphasis on the needs of young children. Guidance in implementing a sound nutritional education program. Includes clinical experiences.

### 315 NUTRITION FOR HEALTH AND PHYSICAL FITNESS 3 sem. hrs.

An advanced course focusing on the physiological and biochemical importance of nutrition to health, physical fitness and sports. Prerequisites: FCS 102 or 106 or consent of instructor and HPR 182 or BSC 181 and 182.

### 316 FOOD SCIENCE 3 sem. hrs.

Experimental approach to principles underlying food preparation. Prerequisites: FCS 213, CHE 110 and 112. Materials charge optional.

### 317 NUTRITION AND METABOLISM 4 sem. hrs.

Physiological and biochemical basis for human nutritional requirements and health. Prerequisites: FCS 102, BSC 160, and HPR 182; CHE 242 concurrent registration.

### 318 FOOD SERVICE MANAGEMENT 3 sem. hrs.

Management of commercial and noncommercial foodservice systems: planning, control systems, decision making, and human considerations. Prerequisites: FCS 103 and 213, MQM 220.

### 319 QUANTITY FOODS 3 sem. hrs.

Principles, techniques, and standards, required to procure, store and prepare food in quantity for institutional and commercial feeding. Prerequisite: FCS 213. Field trips.

### 321 FLAT PATTERN DESIGN 3 sem. hrs.

Computer and hand techniques in making garment patterns by the flat pattern method. Prerequisite: FCS 122 or equivalent. Materials charge optional. Materials charge optional. Formerly 322.

### 323 ADVANCED TEXTILES 3 sem. hrs.

Developments in the textile field, particularly man-made fibers and their products. Textile testing techniques. Prerequisite: FCS 225. Lecture and laboratory. Materials charge optional.

### 324 DRAPING AND DESIGN 3 sem. hrs.

Interpretation of garment designs in fabric by means of the draping procedure. Prerequisite: FCS 122 or 220. Materials charge optional.

**327 CLOTHING AND BEHAVIOR****3 sem. hrs.**

Factors which influence behavior related to clothing selection and use. Emphasis on research. Prerequisite: FCS 226, SOC 106 or PSY 111.

**328 ECONOMICS OF FASHION****3 sem. hrs.**

Fashion as an economic force in the international economy. Fashion's influence on production, distribution and consumption of textiles and apparel. Prerequisites: FCS 226 and ECO 103 or 105.

**329 APPAREL PRODUCT ANALYSIS****3 sem. hrs.**

Overview of apparel manufacturing and analysis of ready-to-wear apparel product quality. Prerequisites: FCS 122, 225, and 226.

**330 DECISION-MAKING FOR CONSUMERS****3 sem. hrs.**

Survey of consumer problems, trends, and information. Topics include: insurance, housing, credit, life style, consumer protection, leisure, and achieving financial security. Also offered as BTE 330.

**331 CONSUMER MATERIALS****3 sem. hrs.**

Application and evaluation of consumer information sources. Prerequisite: FCS 103 required. FCS 233 recommended.

**333 FAMILY AND CONSUMER PUBLIC POLICY****3 sem. hrs.**

Public and private sector programs serving human needs: role of family and consumer sciences in the public policy arena. Prerequisite: FCS 103 required. FCS 233 recommended.

**338 HISTORY OF INTERIOR & ENVIRONMENTAL DESIGN I****3 sem. hrs.**

Major stylistic time periods in architecture and interior design from antiquity to late 19th century.

**340 INTERIOR DESIGN I: STUDIO****4 sem. hrs.**

Design principles applied to residential space. Students examine the ways in which rooms are affected by various design elements. Materials charge optional. Lecture and laboratory. Prerequisites: FCS 225 and 242 required. FCS 244 and IT 211 concurrent registration recommended.

**345 INTERIOR DESIGN BUSINESS PRACTICES****2 sem. hrs.**

Practices and procedures of professional design firms. Emphasis on business ownership, programming, purchasing procedures, billing hours, contracts and business forms. Prerequisite: FCS 340 req.; FCS 300 rec.

**346 ENVIRONMENTAL LIGHTING DESIGN****2 sem. hrs.**

The design of the luminous environment. Emphasis on lighting sources, fixture schedules, switching patterns, and the required drawings used in residential and commercial applications. Prerequisite: FCS 340.

**347 HUMAN FACTORS IN INTERIOR ENVIRONMENTS****2 sem. hrs.**

Functional and aesthetic aspects of interior environments. Emphasis on interface between man-made environments and humans. Needs of special populations addressed. Prerequisite: FCS 244.

**348 HISTORY OF INTERIOR AND ENVIRONMENTAL DESIGN II****2 sem. hrs.**

Major movements in architecture and interior design from the late 19th century to the present. Prerequisite: FCS 338.

**352 RENDERING FOR INTERIOR DESIGNERS****3 sem. hrs.**

Perspective sketching and delineations of architectural interiors. Various media and application techniques will be stressed for professional results in presentations. Prerequisites: IT 211 and FCS 242, or ART 103 and 104, or consent of instructor.

**361 FASHION HISTORY****3 sem. hrs.**

Fashions from antiquity through present day; personalities and cultural forces that influence them. Emphasis on western world in 20th century. Prerequisite: FCS 226.

**365 DESIGN STUDIO****3 sem. hrs.**

Advanced problem solving in apparel design. Prerequisites: FCS 122, 228, and 321 (formerly 322). May be repeated if content different for max of 9 credit hours; consent of instructor required.

**368 FASHION PROMOTION****3 sem. hrs.**

Apparel merchandising techniques with emphasis on visual merchandising advertising, fashion shows, and related promotional activities. Prerequisites: FCS 226.

**369 FASHION MERCHANDISING****3 sem. hrs.**

Management and operation of apparel retail firms with emphasis on store organization, salesmanship, inventory control, retail buying, and retail mathematics. Prerequisites: FCS 226, MKT 230, MQM 220. Field trips required.

**370 INTERIOR DESIGN II: STUDIO****4 sem. hrs.**

The process of linking spaces using architectural elements. Emphasizing the design process as it affects private and public spaces. Prerequisites: FCS 218, 340, Art 352. Field trips. Materials charge optional.

**371 FASHION MERCHANDISING II****3 sem. hrs.**

Planning, developing, and presenting product lines in manufacturing and retail sectors of the apparel business. Prerequisites: FCS 228 and 369.

**375 INTERIOR DESIGN III: STUDIO****4 sem. hrs.**

Study of design theory/analysis in relation to large-scale, comprehensive commercial interiors. Emphasis on codes regulating ergonomic and life safety issues. Prerequisite: FCS 370. Materials charge optional.

**380 ORGANIZATION AND ADMINISTRATION OF VOCATIONAL COOPERATIVE EDUCATION PROGRAMS**  
3 sem. hrs.

Planning and organizing a cooperative program; emphasis on recruitment, selection of training stations, student placement, and operation of cooperative plan. Offered also as BTE 380. Includes clinical experience 5 hrs, Type 10.

**382 COORDINATION TECHNIQUES OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS**  
3 sem. hrs.

Coordination techniques needed for high school and post-secondary teacher coordination in integrating classroom activities with daily employment. Offered also as BTE 382 or IT 306. Includes clinical experiences 5 hours, Type 10.

**394 HEALTH ASPECTS OF AGING**  
3 sem. hrs.

Characteristics of the aging process and factors influencing adaptation and the quality of living. Also offered as HSC 394 and HPR 394.

**400 INDEPENDENT STUDY**  
1-4 sem. hrs.

See Index for General Courses.

**402 SEMINAR IN FAMILY AND CONSUMER SCIENCES**  
2 sem. hrs.

Each student reviews research and exchanges information, problems, and results by informal lectures, reports, and discussions. May be repeated.

**408 HUMAN DEVELOPMENT IN SOCIAL CONTEXT**  
3 sem. hrs.

Theories and research regarding human development and family dynamics and their relationship to apparel, housing, food, nutrition, and other family resources. Offered in the Fall semester.

**412 ADVANCED FAMILY RESOURCE MANAGEMENT**  
3 sem. hrs.

Exploration of theories regarding the managerial behavior of families. Impact of decisions about resource use on the various family environments. Offered in the Spring semester.

**417 ADVANCED MEDICAL NUTRITION THERAPY**  
3 sem. hrs.

Advanced application of theory in practice as it relates to nutritional assessment and therapeutic care plans. Dietetic Interns only.

**420 ADVANCED NUTRITION**  
3 sem. hrs.

Nutrition research applied to improved dietary planning.

**424 SELECTED PROBLEMS IN FAMILY AND CONSUMER SCIENCES**  
1-6 sem. hrs.

Prerequisite: Approval by department graduate coordinator. May be repeated.

**445 STATISTICS IN APPLIED SCIENCE AND TECHNOLOGY**  
3 sem. hrs.

Descriptive and inferential statistics in the applied sciences; statistical analysis using microcomputer applications. Also offered as AGR/HPR/IT 445.

**491 INTERNSHIP IN COLLEGE TEACHING IN FAMILY AND CONSUMER SCIENCES**  
3 sem. hrs.

(See Curriculum and Instruction 491.)

**497 INTRODUCTION TO RESEARCH METHODOLOGY**  
3 sem. hrs.

Selection of a research problem, collection and analysis of data, types of research, the research report, and use of library and data processing resources. Enables the student to become an intelligent consumer of the products of family and consumer sciences research; provides a background for the preparation of a thesis. To be taken during the first 12 hours of graduate work. Offered in the fall semester.

**498 PROFESSIONAL PRACTICE: FAMILY AND CONSUMER SCIENCES**  
1-8 sem. hrs.

Refer to index for General Courses.

**499 MASTER'S THESIS**  
1-6 sem. hrs.

## HEALTH, PHYSICAL EDUCATION, AND RECREATION (HPR)

**Chairperson:** Alan Lacy. Office: Horton 214.

**Graduate Program Director:** William Vogler.

**Graduate Faculty:** A. Amorose, D. Brown, E. Chapman, M. Coleman, D. Garrahy, J. Hopkins, D. Jones, A. Lacy, S. Little, P. Malik, S. McCaw, R. Rossman, B. Schlatter, P. Smith, N. Stumbo, D. Thomas, D. Turco, E. Verner, W. Vogler, C. Wachter.

### Programs Offered

The HPR Department offers a Master of Science Degree in Health, Physical Education, and Recreation. Students seeking an Ed.D. in Educational Administration or Curriculum and Instruction may, with approval, have a program of study including credit hours in HPR. All students seeking an advanced degree should have an adviser to aid them in developing a plan of study.

### Admission Requirements

Admission to the HPER Graduate Program as a degree student requires that the student meet all of the University Graduate School requirements. This includes an undergraduate grade point average (GPA) of at least 2.6 based on the last 60 hours of undergraduate course work and submission of Graduate Record Examination (GRE) test scores. A student may be denied admission as a degree student if the combined verbal and quantitative GRE scores are below 800. Students with an undergraduate GPA of 3.2 or higher for the last 60 hours of undergraduate study, but with a low GRE score, may be admitted upon review. Students with low GPA and low GRE scores will not be admitted to the degree program in HPER. Students seeking a master's degree with an emphasis in athletic training should already be NATABOC certified or eligible for certification at the time of admission.

### Program Requirements

The two degree options available are: (A) 32 semester hour

program which includes a thesis; or (B) 39 semester hour program of course work. Both options require completion of a 6 hour CORE (HPR 497 - Introduction to Research Methods, and a basic graduate statistics course). For the thesis option, 15 hours of 400 level course work are required excluding 4-6 hours of Master's Thesis (HPR 499). A total of 24 hours of HPR courses is required in the thesis option which is inclusive of 6 hours of HPR courses in the CORE. For the 39 hour option, 18 hours of 400 level course work are required inclusive of 3 hours of Research Writing in HPER (HPR 450). A total of 27 hours of HPR courses is required in the 39 hour option which is inclusive of the 6 hours of HPR courses in the CORE. A plan of study is individually developed through faculty-student advisement. Areas of specialized study are available in Health Education, Physical Education and Recreation.

## Courses

### 304 TEACHING OF SPORTS 3 sem. hrs.

Optimal learning in human movement: content, teacher behavior, situational conditions, analysis of sports, instructional approaches, application and research.

### 306 PSYCHOLOGY OF SPORT 3 sem. hrs.

Psychological principles and concepts applied to sport situations and to individuals involved with sport activities. Prerequisites: HPR 254 or consent of instructor.

### 307 EXERCISE IN HEALTH AND DISEASE 3 sem. hrs.

Application of exercise physiology principles to evaluate the extent to which common disease processes limit body function and exercise performance.

### 317 SOCIOLOGY OF SPORT 3 sem. hrs.

The social institution of sport is examined using such sociological concepts as social organization, culture, socialization, deviance, social stratification, minority groups and collective behavior. Also offered as SOC 317.

### 320 DEVELOPMENTAL ASPECTS OF YOUTH SPORT 3 sem. hrs.

Effects of sport and competitive physical activities on the bio-physical and psychosocial development of young people. Prerequisite: At least one of the following: HPR 252, 253, 306, PSY 112, 301, 302, or consent of instructor.

### 334 THERAPEUTIC EXERCISE 2 sem. hrs.

Essential components of a comprehensive rehabilitation program including goals, exercise selection, progression, evaluation, and criteria for return to competition. Prerequisites: HPR 182, 188, 284, or consent of instructor.

### 335 ADMINISTRATION OF ATHLETIC TRAINING PROGRAMS 2 sem. hrs.

Theory and application in athletic training programs including pre-participation physical examinations, budget management, medical records, and legal aspects of sports medicine. Prerequisites: HPR 188, 284, or consent of instructor.

### 342 OCCUPATIONAL BIOMECHANICS 3 sem. hrs.

Application of biomechanical principles to the solution of problems related to the interaction of the worker with the workplace. Prerequisites: HPR 181; HSC 271; PHY 108; MAT 120 or 121 or 145 or consent of instructor. Materials charge optional.

### 352 QUANTITATIVE ANALYSIS OF BIOMECHANICS 3 sem. hrs.

Amplification of kinematics, and kinetics of human movement; introduction to high speed videography, biomechanics instrumentation and computer analysis. Prerequisites: HPR 282, or consent of instructor. Materials charge optional.

### 353 ELECTROCARDIOGRAPHY 1 sem. hr.

Relationships of electrocardiographic complexes to the anatomy and physiology of the heart under selected conditions of health, disease, and exercise. Prerequisites: HPR 182 or consent of instructor.

### 373 LEISURE EDUCATION AND FACILITATION TECHNIQUES 3 sem. hrs.

Advanced study of leisure education models and concepts; applications and understanding of facilitation techniques in therapeutic recreation services. Prerequisites: HPR 273 or consent of instructor. Lecture and lab.

### 381 SPECIAL STUDIES IN RECREATION AND TOURISM 1-3 sem. hrs.

Special work in research interests of student and staff. Projects must be approved by the instructor. Prerequisite: Graduate standing and consent of instructor. May be repeated; maximum 6 hours.

### 383 ADAPTED PHYSICAL EDUCATION 3 sem. hrs.

Handicapping conditions and methods, materials, and activities for adapted physical education programs in pre-school, elementary, secondary, and self contained schools. Includes clinical experiences 15 hours, Type 4. Prerequisite: HPR 181 or BSC 181.

### 385 PHYSICAL DISABILITIES: SURVEY AND REHABILITATION 3 sem. hrs.

Identification and treatment of physical disabilities in children; special services, equipment, and procedures for school programs. Includes clinical experiences approximately 16 hours, Type 1, 3, 6. Also offered as SED 385.

### 387 EVALUATION OF ATHLETIC INJURIES: LOWER EXTREMITY 3 sem. hrs.

The advanced study of lower extremity injuries, with emphasis on evaluation. Prerequisite: HPR 181, 284 or consent of instructor.

### 388 EVALUATION OF ATHLETIC INJURIES: UPPER EXTREMITY 3 sem. hrs.

The advanced study and practice of evaluation and management of upper extremity injuries in sports. Prerequisite: HPR 181, 284 or consent of instructor.

**390 DRUGS IN SOCIETY****3 sem. hrs.**

Psychological, social, medical, legal and economic aspects of use, misuse and abuse of substances will be explored along with the implications for education and prevention. Also offered as HSC 390. Health Ed and HPR majors only.

**394 HEALTH ASPECTS OF AGING****3 sem. hrs.**

Characteristics of the aging process and factors influencing adaptation and the quality of living. Also offered as HSC 394 and FCS 394.

**395 MEDIA AND MATERIALS IN HEALTH EDUCATION****3 sem. hrs.**

Analysis and development of print and non-print materials and their use by health educators. Prerequisites: HSC 286 and 290. Also offered as HSC 395. Health Ed and HPR majors only.

**396 HEALTH EDUCATION PLANNING AND PROMOTION****3 sem. hrs.**

Theory and application of health education program planning and promotion. Grantsmanship and evaluation will be emphasized. Prerequisite: HSC 286 and 290. Also offered as HSC 396. Health Ed and HPR majors only.

**400 INDEPENDENT STUDY****1-4 sem. hrs.**

Refer to Index for General Courses. Materials charge optional.

**401 CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION****3 sem. hrs.**

The nature of curriculum in physical education, with emphasis upon approaches for development, use of the discipline of human movement, pertinent content and processes, major concepts and relevant competencies.

**404 ANALYSIS OF INSTRUCTION IN PHYSICAL EDUCATION****3 sem. hrs.**

Advanced study of analysis of teaching physical education through use and application of systematic observation instruments for purposes of research. Prerequisite: Teacher certification in physical education or consent of instructor.

**405 APPLIED MOTOR LEARNING****3 sem. hrs.**

Motor learning and performance designed to apply theory to teaching practice in physical education. Prerequisite: HPR 257 or consent of instructor.

**406 ADVANCED SPORT PSYCHOLOGY****3 sem. hrs.**

In-depth analysis and synthesis of current and foundational sport psychology topics through lectures, labs, and class projects. Prerequisite: HPR 445 or equivalent statistics course; HPR 306 or consent of instructor.

**416 MOTIVATION IN SPORT AND EXERCISE****3 sem. hrs.**

Motivational factors affecting the performance of individuals in sport, physical education, and exercise domains will be examined. Prerequisite: HPR 306 or consent of instructor.

**424 SUPERVISION OF PHYSICAL EDUCATION****2-3 sem. hrs.**

Techniques of supervision in elementary and secondary schools; in-service training of the supervisor; relationships with teachers, administrators and community.

**445 STATISTICS IN APPLIED SCIENCE AND TECHNOLOGY****3 sem. hrs.**

Descriptive and inferential statistics in the applied sciences; statistical analysis using microcomputer applications. Also offered as AGR/FCS/HSC/IT 445.

**450 RESEARCH WRITING IN HPER****3 sem. hrs.**

Intensive writing experience for organized research focusing on a topic of the student's interest in health, physical education, or recreation. Required for 39-hour option. Prerequisites: HPR 445 and 497.

**451 ADVANCED THEORIES OF PHYSICAL CONDITIONING****3 sem. hrs.**

An in-depth analysis of the theories and principles of physical conditioning for sport and physical activity. Prerequisites: HPR 181, 182 and 280 or consent of instructor.

**454 NEUROMUSCULAR ASPECTS OF EXERCISE PHYSIOLOGY****3 sem. hrs.**

Structural, physiologic, and metabolic function of the neuromuscular system during exercise and following training. Prerequisite: HPR 481 or equivalent or consent of instructor.

**460 ATHLETIC ADMINISTRATION****3 sem. hrs.**

Critical analysis of current issues that confront directors of athletics in schools and colleges in the administration of athletics with special reference to national, state, and local control.

**462 LEGAL ASPECTS OF SPORT AND PHYSICAL EDUCATION****3 sem. hrs.**

Identification of problems, trends, and implications for sport and physical education through a study of statutory laws and ruling case law.

**466 PROMOTION OF SPORT AND RECREATION****3 sem. hrs.**

Application of promotional and strategic principles and concepts to develop, implement, and evaluate formal plans in sport and recreation. Prerequisite: MKT 403 or equivalent.

**468 SEMINAR IN ADMINISTRATION OF SPORT, PHYSICAL EDUCATION, AND RECREATION****3 sem. hrs.**

Student participation in discussion, reports and demonstrations to gain fluency in oral and written presentation relative to administration and development of physical education, sport and recreation.

**470 ADVANCED COMMUNITY HEALTH****3 sem. hrs.**

Analysis of interorganizational communication and cooperative efforts of local, state, national, and international health education organizations.

**471 CURRICULUM DEVELOPMENT  
AND EVALUATION IN  
HEALTH EDUCATION**  
3 sem. hrs.

Examination of components, processes and products in health curriculum development and evaluation, and the development of skills in their use.

**473 TRENDS AND ISSUES IN  
LEISURE SERVICES**  
3 sem. hrs.

In-depth analysis of selected trends, issues and problems confronting leisure service and recreation practitioners in contemporary settings.

**474 CONCEPTS AND THEORIES OF LEISURE  
AND RECREATION**  
3 sem. hrs.

An examination of concepts, theories and determinants of leisure and recreation. Application of relevant research to leisure programs and services. Consent of instructor for non-HPR majors.

**475 MANAGEMENT OF SPORT  
AND RECREATION**  
3 sem. hrs.

A course on contemporary management theory and practice as related to the effective operation of sport and recreation delivery systems. Materials charge optional.

**477 PROFESSIONAL ISSUES IN  
THERAPEUTIC RECREATION**  
3 sem. hrs.

An in-depth investigation of contemporary professional issues and their relationship to current and future development of therapeutic recreation services. Prerequisites: HPR 273 or 279 or consent of instructor.

**478 ACCOUNTABILITY IN THERAPEUTIC  
RECREATION SERVICES**  
3 sem. hrs.

Analysis of components of and factors affecting comprehensive program design, including planning, implementation, documentation, and evaluation of therapeutic recreation services. Prerequisites: HPR 273 or 279 or consent of instructor.

**479 ASSESSMENT IN THERAPEUTIC  
RECREATION**  
3 sem. hrs.

Advanced study of assessment: including measurement properties, methods, techniques and procedures, selection of appropriateness for therapeutic recreation service delivery. Prerequisites: HPR 273 or 279 or consent of instructor.

**480 EXERCISE AND BODY COMPOSITION**  
3 sem. hrs.

Theory and practice in the assessment and interpretation of exercise and body composition including age, gender, and racial variations. Prerequisite: HPR 481 or consent of instructor.

**481 WORK METABOLISM**  
3 sem. hrs.

An investigation of the metabolic changes that occur during exercise stress in physical education and sport activities. Prerequisite: HPR 280, or consent of instructor.

**482 ADVANCED BIOMECHANICS OF  
HUMAN MOVEMENT**  
3 sem. hrs.

Emphasis is on problems of human movement from both theoretical and experimental aspects utilizing contemporary methodology. Prerequisite: HPR 352 or equivalent. Materials charge optional.

**485 ADVANCED SEMINAR IN ATHLETIC  
TRAINING**  
3 sem. hrs.

The advanced study and discussion of specialized topics and contemporary problems related to the field of athletic training. Prerequisite: Consent of instructor.

**487 SPORTS MEDICINE:  
MEDICAL ASPECTS**  
3 sem. hrs.

A course for advanced study in the medical aspects of sports injuries: the medical specialties and their function in sports medicine. Prerequisites: Open to graduate students enrolled in Athletic Training Concentration and others with consent of coordinator of athletic training programs.

**488 ADVANCED LAB/CLINICAL  
PRACTICE IN  
ATHLETIC TRAINING**  
3 sem. hrs.

Advanced laboratory and clinical practice of athletic training, sports medicine techniques, under the supervision of a certified athletic trainer. Prerequisite: Consent of the coordinator of athletic training.

**491 INTERNSHIP IN COLLEGE TEACHING IN  
HEALTH, PHYSICAL EDUCATION,  
AND RECREATION**  
3 sem. hrs.

Credit in this course is given in Curriculum and Instruction. (See Curriculum and Instruction 491.)

**492 ADVANCED CONCEPTS IN HEALTH  
EDUCATION**  
3 sem. hrs.

Examination of emerging concepts of health education related to the technological, psychological, and philosophical advances of society.

**497 INTRODUCTION TO RESEARCH  
METHODOLOGY**  
3 sem. hrs.

Selection of a research problem, collection of data, types of research, the research report, and use of the library in connection with the research problem. Emphasis on understanding and interpreting frequently used statistical concepts. Provides a background for the preparation of the thesis. Enables the student to become an intelligent consumer of the products of educational research. Materials charge optional.

**498 PROFESSIONAL PRACTICE HPER**  
1-12 sem. hrs.

Refer to Index for General Courses. Materials charge optional.

**499 MASTER'S THESIS**  
1-6 sem. hrs.

Refer to Index for General Courses. Materials charge optional.



**500 INDEPENDENT STUDY****1-4 sem. hrs.**

A maximum of four hours may be applied toward the doctoral degree. Intensive study in a special area of the advanced student's interest under a qualified member of the faculty. Open only to doctoral students in EAF and C&I who have completed considerable work in a degree program, who are in good academic standing, and who have demonstrated ability to profit from independent study. A written proposal approved by the faculty member, the student's adviser, and the department chairperson is required prior to registration.

**HEALTH SCIENCES (HSC)****Chairperson:** Marilyn Morrow. Office: 305 Felmley Hall.**Graduate Program Director:** Thomas Bierma.**Graduate Faculty:** T. Bierma, J. Broadbear, C. Janicak, T. Kelley, B. Keyser, S. LaFollette, M. Micke, M. Morrow.

The Department of Health Sciences offers a Master of Science in Environmental Health and Safety.

**Admission Requirements**

Admission to the Program requires that students meet all University Graduate School requirements. This includes an undergraduate grade point average (GPA) of at least 2.6 (on a 4.0 scale) based on the last 60 hours of undergraduate course work and submission of Graduate Record Examination (GRE) test scores. Students may be denied admission as a degree student if the combined verbal and quantitative GRE scores are below 1000. Applicants must also have completed a baccalaureate degree in a science or technical area (e.g. environmental health, occupational safety, industrial hygiene, chemistry, biology, physics, mathematics, industrial technology, engineering, or a related field). Students must have completed, at a minimum, the following college-level courses with a grade of C or better:

- 3 credit hours of college general chemistry
- 3 credit hours of college physics
- 3 credit hours of college algebra

Admission will be competitive and additional selection criteria will be used. All students seeking an advanced degree should have an advisor to aid them in developing a plan of study. Students who do not hold an undergraduate degree in Environmental Health or Safety may need to complete deficiency work determined by the graduate coordinator.

**Academic Advisement**

Students seeking a master's degree in Environmental Health and Safety (EH&S) should meet with the graduate coordinator of the department prior to admission to the graduate program. Deficiencies, if any, will be determined and a graduate advisor assigned. The student and adviser will plan the graduate program and submit the Plan of Study required by the Graduate School for the graduate coordinator's and chairperson's approval after the student completes 12 semester hours. All courses, including transfer courses, must be listed on the Plan of Study.

**Program Requirements**

There are two degree options available. They are: A) 32-hour program, including a thesis (4-6 hours); or B) 39-hour program of approved course work, including a synthesizing experience (HSC 450) involving research and exposition. Students in both options must take 16 hours of required core courses including HSC 420, 421, 422, 445, 450, and 497; plus 6 hours of Departmental elec-

tives selected from HSC 322, 350, 359, 370, 372, 378, 380, 381, 382, 383, 384, 385, 400, 452, 453, 456, 459, 462, 468, 471. Additional elective courses are selected by students in consultation with the advisor. Students must complete a minimum of 25 hours of approved course work, exclusive of HSC 450 and 499.

Students selecting HSC 499 (option A, above) are required to complete a minimum of 15 hours of 400-level course work excluding the master's thesis. Approval from the EH&S graduate coordinator is required to register for HSC 499. Students should confer with their advisor prior to registration in this course. Students not selecting HSC 499 (option B, above) are required to complete a minimum of 18 hours of 400-level course work.

**Courses****322 POLLUTION PREVENTION****3 sem. hrs.**

Basic methods in pollution prevention as applied to industrial and non-industrial settings. Prerequisites: CHE 220; MAT 119; HSC 145; or admission to the EH&S graduate program.

**350 FOOD PROTECTION****3 sem. hrs.**

An intensive study of the laws, principles, and techniques applied in the protection of food and milk for human consumption. Prerequisites: Admission to the EH&S graduate program; BSC 160 or equivalent.

**359 INDUSTRIAL HYGIENE****3 sem. hrs.**

Techniques for measurement, evaluation and control of chemical and physical hazards in occupational environments. Prerequisite: CHE 220; HSC 248; MAT 120 or 145; or admission to the EH&S graduate program. Majors only. Materials charge optional.

**370 INDUSTRIAL ACCIDENT PREVENTION****3 sem. hrs.**

Principles, responsibilities, and techniques for developing, organizing, implementing, and administering an industrial safety program. Prerequisites: PHY 105 or 108; HSC 271.

**372 ACCIDENT INVESTIGATION, RECORDS, AND EVALUATION****3 sem. hrs.**

Theory and function of accident investigation, reporting and analysis systems. Form design and utilization and cost-evaluation procedures. Prerequisites: PHY 108; HSC 271 or concurrent registration; or admission to the EH&S graduate program.

**378 DISASTER PREPAREDNESS****3 sem. hrs.**

Organizing, directing, coordinating disaster services in schools, industry and local government. Includes a hands-on disaster exercise. Prerequisites: CHE 110 and 112; MAT 120 or 121 or 145; or admission to the EH&S graduate program.

**380 FIRE PROTECTION AND PREVENTION****3 sem. hrs.**

Measures related to safeguarding human life and preservation of property in prevention, detection, and extinguishing of fires. Prerequisite: HSC 370; PHY 105 or 108; MAT 120 or 121 or 145.

**381 OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)****3 sem. hrs.**

Interpretation of the provisions of the Occupational Safety and Health Act. The regulations, standards and reporting requirements pursuant to it. Prerequisites: MAT 120 or 121 or 145; HSC 271 and 370 or concurrent registration or consent of instructor.

**382 SAFETY PERFORMANCE CONTROL****3 sem. hrs.**

Development of specialized knowledge and skills in problem-solving, evaluation and implementation of occupational safety programs. Prerequisites: HSC 370; PSY 110 or 111; MQM 100 or ECO/GEO/POS/PSY 138.

**383 AGRICULTURAL ACCIDENT PREVENTION****3 sem. hrs.**

Major problems of accident causation and prevention applicable to agriculture and the need for farm safety education, engineering, and enforcement of countermeasures. Half-day field trip required. Prerequisites: CHE 110 or 140, or consent of instructor; or admission to the EH&S graduate program.

**384 HAZARDOUS MATERIALS REGULATIONS****3 sem. hrs.**

Overview of federal and state safety and environmental regulations dealing with hazardous materials in the workplace and community. Lecture. Prerequisites: HSC 271 and CHE 220 or equivalent; or admission to the EH&S graduate program.

**385 SYSTEM SAFETY MANAGEMENT AND ENGINEERING****3 sem. hrs.**

Applications of principles of systems analysis, hazard analysis, fault tree analysis, and other safety techniques. Prerequisites: HSC 204, 271, and 370; or HSC 370 and admission to the EH&S graduate program.

**387 PROGRAMS IN SCHOOL HEALTH****3 sem. hrs.**

Comprehensive school health education with major topics of health education, school health programs, and school community collaboration. Prerequisites: HSC 290 and 292.

**390 DRUGS IN SOCIETY****3 sem. hrs.**

Psychological, social, medical, legal and economic aspects of use, misuse and abuse of substances will be explored along with the implications for education and prevention. Also offered as HPR 390. Health Ed and HPR majors only.

**394 HEALTH ASPECTS OF AGING****3 sem. hrs.**

Characteristics of the aging process and factors influencing adaptation and the quality of living. Offered as HPR 394 or FCS 394.

**395 MEDIA AND MATERIALS IN HEALTH EDUCATION****3 sem. hrs.**

Analysis and development of print and non-print materials and their use by health educators. Prerequisites: HSC 286 and 290. Also offered as HPR 395. Health Ed and HPR majors only.

**396 HEALTH EDUCATION PROGRAM PLANNING AND EVALUATION****3 sem. hrs.**

Theory and application of health education planning and promotion. Grantsmanship and evaluation will be emphasized. Prerequisite: HSC 286 and 290. Also offered as HPR 396. Health Ed and HPR majors only.

**400 INDEPENDENT STUDY****1-4 sem. hrs.**

Refer to Index for General Courses

**420 NEEDS ASSESSMENT FOR ENVIRONMENTAL AND SAFETY PROGRAMS****3 sem. hrs.**

This course will prepare the student with the skills and knowledge necessary to assess and justify the need for specific Environmental Health and Safety programs. Prerequisites: admission to the EH&S graduate program or consent of graduate coordinator.

**421 PLANNING AND IMPLEMENTATION OF ENVIRONMENTAL HEALTH AND SAFETY PROGRAMS****3 sem. hrs.**

This course will prepare the student with the skills and knowledge necessary to plan and implement effective Environmental Health and Safety programs. Prerequisite: HSC 420

**422 EVALUATION OF ENVIRONMENTAL HEALTH AND SAFETY PROGRAMS****3 sem. hrs.**

This course will prepare the student with the skills and knowledge necessary to evaluate and improve Environmental Health and Safety programs. Prerequisites: HSC 420, 421, 445, and 497.

**445 STATISTICS IN APPLIED SCIENCE AND TECHNOLOGY****3 sem. hrs.**

Descriptive and inferential statistics in the applied sciences; statistical analysis using microcomputer applications. Also offered as AGR/FCS/IT/HPER 445.

**450 GRADUATE SEMINAR IN ENVIRONMENTAL HEALTH AND SAFETY****1 sem. hr.**

In-depth exploration of environmental health and safety topics. Prerequisite: Graduate student in science-related program. May be repeated for credit for up to 3 hours total.

**452 ENVIRONMENTAL HEALTH AND MICROBIOLOGY****3 sem. hrs.**

Advanced study of the role of microorganisms in environmental health practice, focusing on monitoring and control of agents of infectious disease. Prerequisite: BSC 160 or equivalent, or consent of instructor.

**453 RISK ASSESSMENT AND RISK MANAGEMENT****3 sem. hrs.**

A study of the tools and strategies for the quantitative and qualitative assessment and management of environmental and occupational risks. Prerequisite: HSC 420.

**456 RISK COMMUNICATION****3 sem. hrs.**

A study of the tools and strategies for the interactive process of the exchange of risk assessment and management information and opinions among individuals, groups, and institutions. Prerequisite: HSC 420.

**459 ADVANCED INDUSTRIAL HYGIENE****3 sem. hrs.**

An advanced study of techniques for the anticipation, recognition, evaluation and control of environmental and human factors that affect the well-being of people in the workplace or community. Prerequisite: HSC 359 or equivalent, or consent of instructor.

**462 ERGONOMICS****3 sem. hrs.**

Overview of physical and psychological aspects of ergonomics, including workstation design, its role in accident causation, and ergonomic-related injuries and illnesses. Lecture and lab. Prerequisite: Admission to the EH&S graduate program.

**468 HUMAN TOXICOLOGY****3 sem. hrs.**

An advanced study of the principles of toxicological events, site- and organ-specific adverse health outcomes, and characteristics of selected groups of toxins. Prerequisite: Admission to the EH&S graduate program or consent of instructor required; one semester undergraduate course in environmental toxicology or equivalent recommended.

**471 ADVANCED INDUSTRIAL SAFETY****3 sem. hrs.**

Instruction in the advanced techniques used by business and industry to reduce losses, assess safety, and manage risks. Prerequisites: HSC 370 and 381.

**497 INTRODUCTION TO RESEARCH  
METHODOLOGY****3 sem. hrs.**

Selection of research problems, types of research designs, data collection, research reports and use of information resources. Prerequisite: HSC 445.

**499 MASTER'S THESIS****4-6 sem. hrs.**

Refer to Index for General Courses.

**INDUSTRIAL TECHNOLOGY (IT)**

**Chairperson:** Rodney L. Custer. Office: Turner Hall 210.

**Graduate Program Director:** Paul Brauchle.

**Graduate Faculty:** R. Boser, P. Brauchle, H. Campbell, R. Custer, M. Daugherty, A. Gokhale, W. Lockwood, F. Loepf, R. Meier, L. Quane, R. Satchwell, K. Stier.

**Programs Offered**

The department offers a Master of Science degree with two sequence options. The sequences include Training and Development and Technology Education. The Technology Education sequence is not a teacher certification program. Certified teachers pursue the degree for professional development. Non-certified students also may pursue the Masters in conjunction with other courses required for teacher certifica-

tion. University requirements for master's degrees are listed elsewhere in this catalog. All courses, including transfer courses, must be listed on the Plan of Study and approved by the graduate coordinator, chairperson, and Dean of the Graduate School. A Student may choose: (A) 32 semester hour program with a thesis or (B) 36 semester hour program, plus a comprehensive examination.

**Admission Requirements**

Admission to the master's degree program requires an earned bachelor's degree with a minimum undergraduate cumulative GPA of 2.8 or a GPA of 3.0 in the last 60 hours. Program applicants must submit the scores for the General Test of the GRE. Students should submit to the department's graduate coordinator two letters of recommendation from professors or employers. Other significant professional experiences that may contribute to the applicant's readiness for graduate work, such as publications or research reports, or evidence of professional leadership activities, may also be submitted.

**Scholastic Requirements for Graduate Assistants**

A student must be in Academic Good Standing at the graduate level to retain a graduate assistantship.

**Academic Advisement**

Students seeking a master's degree in Industrial Technology should meet with the graduate coordinator of the department prior to enrollment in graduate courses. Deficiencies, if any, will be determined and a graduate adviser assigned. The student and adviser will plan the graduate program and submit the Plan of Study required by the Graduate School for the graduate coordinator's and chairperson's approval after the student completes 12 semester hours.

**Curriculum Requirements**

Students must select one of two options (32 semester hours including thesis or 36 semester hours with a comprehensive exam) in completing the M.S. degree. In each of these options, IT majors must complete required core courses (12 hours), 9 semester hours from one of the two sequences, and electives. The required core courses are IT 349, IT 403, IT 445, and IT 497. IT 349 may be waived if an equivalent course has been completed or proficiency demonstrated.

- The nine hours required for the Training and Development sequence are IT 406, IT 407, and IT 408.

- The nine hours required for the Technology Education sequence are IT 420, IT 421, and IT 422.

Students must also complete (if acceptable for graduate credit) courses selected from the following: IT 400, 404, 412, 498 and/or 300 level technical courses and/or approved courses from other departments. No more than nine hours may be taken in a combination of IT 400 and 498. Students may select courses in other departments by advisement.

**Thesis Option:** Students selecting the thesis option will complete the core requirements of 12 hours, 9 hours in a sequence, 6 hours of thesis, and 5 hours of electives to meet the minimum of 32 semester hours.

**Comprehensive Exam Option:** Students selecting the comprehensive exam option will complete the core requirement of 12 hours, 9 hours in a sequence, and 15 hours of electives to meet the 36-semester hour requirement, and pass a comprehensive written/oral examination.

## Courses

### 301 ADVANCED METHODS OF TEACHING TECHNOLOGY EDUCATION 3 sem. hrs.

Conceptual foundations and methodologies for teaching a standards-based technology education program at the elementary, middle-level, or secondary school. Prerequisite: Technology education major, graduate standing, alternative certification, or provisionally certified teachers only.

### 302 TEACHING TECHNOLOGICAL DESIGN AND PROBLEM SOLVING 3 sem. hrs.

Foundation and methodology concepts used to deliver technology-based design and problem solving in the elementary, middle-level, and secondary classroom/laboratory. Prerequisite: Education major, graduate standing, or practicing teachers only.

### 306 COORDINATION TECHNIQUES OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS 3 sem. hrs.

Coordination techniques needed for high school and post-secondary teacher coordinators in integrating classroom activities with daily employment. Also offered as BTE 382 and FCS 382. Includes clinical experiences.

### 311 MANAGING INDUSTRIAL OPERATIONS 3 sem. hrs.

Principles, practices, and methods used to plan, organize, and manage a sequence of industrial operations used to produce a product. Prerequisites: MQM 100; PSY 230; and 75 hours.

### 312 FACILITIES PLANNING 2 sem. hrs.

Industrial/manufacturing facilities planning including space requirements, machine arrangements, flow lines, and environmental features. Prerequisites: MAT 144 or 120, or 145. Junior standing, IT and MQM majors only.

### 313 STATISTICAL QUALITY CONTROL 3 sem. hrs.

Use of statistical methods involving control charts, paretos, histograms, scattergrams, flow charts, and problem-solving techniques to manage and improve quality. Prerequisites: MQM 100; MAT 120 or 144 or 145; 8 hrs in an IT sequence.

### 314 ADVANCED QUALITY CONCEPTS FOR INDUSTRY 3 sem. hrs.

Total quality management concepts/techniques to organize and lead a technical enterprise. Prerequisite: IT 313.

### 315 COMPUTER-AIDED DESIGN FOR MANUFACTURABILITY 3 sem. hrs.

Design decisions and product manufacturability interaction, concurrent engineering tools, database development, applications in electro-mechanical design, FMS, etc. Prerequisites: IT 130 and 216.

### 317 COMPUTER-AIDED RENDERING AND ANIMATION 3 sem. hrs.

Using computer systems to create renderings and animated presentations of design ideas in an industrial or architectural setting. Prerequisites: IT 211 or 216.

### 318 PRODUCT MODELING AND ANALYSIS 3 sem. hrs.

Surface and solid modeling of parts and assemblies; parametric/associative design; mass properties analysis; interfacing to manufacturing and analysis programs. Prerequisites: IT 216.

### 319 COMPUTER GRAPHICS 3 sem. hrs.

Combination of graphic techniques and computer programming as means of industrial communication applied to solution and interpretation of technological problems. Also offered as COM 319. Prerequisite: IT 210, 216, or demonstrate equivalent competencies.

### 322 BUILDING CODES AND INSPECTIONS 2 sem. hrs.

Model construction codes and the application and administration of minimum standards for public safety. Prerequisite: IT 120 or 211.

### 325 COMPUTERIZED ESTIMATING AND SCHEDULING 3 sem. hrs.

Integrated approach to computerized estimating and scheduling as methods of project control. Prerequisites: IT 222, 224, and 229; PHI 238 or concurrent registration.

### 326 CONSTRUCTION FINANCE AND ACCOUNTING 3 sem. hrs.

Practical application of financial and accounting fundamentals specific to the construction industry. Prerequisites: ECO 105, IT 229, and MAT 120 or 144 or 145.

### 327 DESIGN OF BUILDING STRUCTURES 3 sem. hrs.

Analysis and design of permanent and temporary structural systems for wood, steel, and concrete construction. Prerequisites: IT 224, 292, MAT 120, and PHY 105.

### 328 RESIDENTIAL DEVELOPMENT 3 sem. hrs.

Principles and practices of residential development including land acquisition and improvement, regulations, construction, and sales. Prerequisites: ECO 105, IT 224, 229, and jr. standing.

### 345 INDUSTRIAL PROCESS CONTROL 3 sem. hrs.

Reprogrammable and pneumatic logic automated control systems for industrial production processes. Prerequisites: IT 263, 240, and ACS 155 or demonstrated equivalent competencies. Materials charge optional.

### 346 MICROPROCESSOR SYSTEMS 4 sem. hrs.

Theory and application of the internal workings of microprocessors and microcomputers and special application microprocessors. Prerequisites: ACS 155.02 and IT 244. Materials charge optional.

### 349 TECHNICAL WRITING II 3 sem. hrs.

Instruction and practice editing, proposals, and analytical writing; attention given to style manuals, research writing, and (as needed) publication. Prerequisite: ENG 249 or graduate standing. Also offered as ENG 349.

**350 THE FLEXOGRAPHIC PRINTING INDUSTRY****3 sem. hrs.**

Methods, techniques and management practices utilized in the flexographic printing industry. Lecture, lab, and field trips. Prerequisite: IT 257. Materials charge optional.

**351 ADVANCED IMAGE TRANSFER SYSTEMS****3 sem. hrs.**

Advanced image transfer techniques including process color reproduction; printing inks and substrates and finishing methods. Lecture, labs, and field trips. Prerequisites: IT 257 Materials charge optional.

**352 ADVANCED PRE-PRESS TECHNIQUES****3 sem. hrs.**

Utilization of advanced pre-press methods and technologies in the creation and management of print media. Lecture, labs, and field trips. Prerequisite: IT 250. Materials charge optional.

**353 COLOR REPRODUCTION TECHNIQUES****3 sem. hrs.**

Theory of color and color reproduction in the graphic arts; techniques in color separation, color correction, scanning, imaging and proofing. Lecture, labs, and field trips. Prerequisite: IT 253. Materials charge optional.

**354 MANAGING PRINTING AND IMAGING TECHNOLOGIES****3 sem. hrs.**

Management of printing and imaging organizations with emphasis on human resources, leadership, supervisory skills, personnel management, and training. Prerequisite: Any two of IT 350, 351, 352, 353, or concurrent registration.

**356 MANAGING PRODUCTION IN PRINTING/IMAGING TECHNOLOGIES****3 sem. hrs.**

Controlling workflow of printed products, facility design, scheduling and cost estimating. Devices and procedures used to measure print quality. Prerequisites: Two of the following courses: IT 350, 351, 352, 353.

**383 TELECOMMUNICATIONS TECHNOLOGY****3 sem. hrs.**

Interfacing computers locally and through telecommunications networks. Identification of existing standards and hardware and evaluation of specific interfacing needs. Lecture and lab. Prerequisite: IT 243 or ACS 254. Materials charge optional.

**384 PLASTIC MOLDING PROCESSES****3 sem. hrs.**

Advanced theory and practice related to plastics injection molding and extrusion: process control, molds and dies, and auxiliary equipment. Lecture and lab. Prerequisite: IT 285. Materials charge optional.

**387 FORMING, EXPANDING AND FABRICATING PLASTICS****3 sem. hrs.**

Advanced study of plastics and processes used for product development involving thermoforming, foam modeling, fiberglass lay-up, assembling, machining, and decorating. Lecture and lab. Prerequisites: IT 285. Materials charge optional.

**388 PLASTICS PRODUCT DESIGN****3 sem. hrs.**

Designing plastic tooling, fixtures, and industrial and consumer products. Lecture and lab. Prerequisites: IT 285 and 216. Materials charge optional.

**390 INDUSTRIAL COMPUTER APPLICATIONS****4 sem. hrs.**

Development of industrial computer applications using advanced principles and techniques--encoding, transmitting, receiving, storing of images/data in industrial applications. Lecture and lab. Prerequisites: IT 311 and PHY 105; 9 hrs. of advanced technical courses in industrial computer systems. Materials charge optional.

**392 INDUSTRIAL PRODUCTION****4 sem. hrs.**

Study of management and supervisory principles applied to product manufacturing and plant engineering using case studies, real and simulated situations. Prerequisites: IT 311 and 6 sem. hrs. of technical core courses in the Integrated Manufacturing Systems Sequence and senior standing or consent of instructor. Materials charge optional.

**394 CONSTRUCTION MANAGEMENT AND ADMINISTRATION****4 sem. hrs.**

Project management and administrative techniques such as estimating, bidding, contracts, scheduling, finance, sub-contracting, and cost analysis and control. Prerequisites: IT 226, 323, and 325; and 500 hours construction experience or consent of instructor.

**400 INDEPENDENT STUDY****1-4 sem. hrs.; Department recommends 3 sem. hrs.**

A maximum of six hours may be applied toward a master's degree. Intensive research study in an area of student's interest under a qualified member of the faculty. Each individual investigation is to culminate in a comprehensive written report and/or examination. Open only to graduate students who have completed considerable work in a degree program, who are in good standing, and who have demonstrated ability to profit from independent study. A written proposal approved by the faculty member, the student's adviser and the department chairperson is required prior to registration. May be repeated for a total of six hours. Prerequisites: IT 349 and IT 497.

**403 SEMINAR IN INDUSTRIAL TECHNOLOGY****2-3 sem. hrs.**

A Seminar consists of advanced students meeting regularly under the guidance of a faculty member in which each conducts research and exchanges information, problems and results through informal lectures, reports and discussions. May be repeated for a total of six hours. Prerequisites: IT 349 and 497.

**404 SPECIAL PROJECTS IN INDUSTRIAL TECHNOLOGY****1-3 sem. hrs.**

Investigation of selected areas of industrial technology which may include laboratory work. Each individual investigation is to include a project and a comprehensive written report and/or examination. A written proposal approved by the faculty member, the student's adviser and the department chairperson is required prior to registration. May be repeated for a total of six hours. Prerequisites: IT 349 and 497.

**406 INSTRUCTIONAL PROGRAM DESIGN FOR INDUSTRIAL TRAINING****3 sem. hrs.**

Study and applications of the theories and methods used in the development of contemporary industrial training and industrial education curricula.

**407 INSTRUCTIONAL PROGRAM DEVELOPMENT FOR INDUSTRIAL TRAINING****3 sem. hrs.**

Provides competencies required for identifying training objectives and implementing industrial training programs utilizing effective contemporary instructional and delivery methods. Prerequisite: IT 406.

**408 INSTRUCTIONAL PROGRAM IMPLEMENTATION AND EVALUATION FOR INDUSTRIAL TRAINING****3 sem. hrs.**

Provides competencies required for analyzing and evaluating industrial training workshops and programs by conducting process and product evaluations. Prerequisite: IT 406.

**420 FOUNDATIONS OF TECHNOLOGY EDUCATION****3 sem. hrs.**

Provides the student with a foundation for understanding technology education, drawing attention to the key constructs that guide the profession. Prerequisite: graduate standing.

**421 INNOVATION IN TECHNOLOGY EDUCATION****3 sem. hrs.**

Study of contemporary trends and issues in technology education. Prerequisite: graduate standing.

**422 TECHNOLOGY: PAST AND FUTURE****3 sem. hrs.**

History and nature of technology emphasizing the historical and contemporary interaction of technologies on humans and their cultures. Prerequisite: graduate standing.

**445 STATISTICS IN APPLIED SCIENCE AND TECHNOLOGY****3 sem. hrs.**

Descriptive and inferential statistics in the applied sciences; statistical analysis using microcomputer applications. Also offered as AGR/FCS/HPR 445.

**491 INTERNSHIP IN COLLEGE TEACHING IN INDUSTRIAL EDUCATION****3 sem. hrs.**

(See Curriculum and Instruction 491.)

**497 INTRODUCTION TO RESEARCH METHODOLOGY****3 sem. hrs.**

Selection of a research problem, collection of data, types of research, the research report and use of the library in connection with the research problem. Emphasis on understanding and interpreting frequently used statistical concepts. Provides a background for the preparation of the thesis. Prerequisites or co-requisites: three semester hours of statistics at the undergraduate or graduate level and IT 349.

**498 PROFESSIONAL PRACTICE IN INDUSTRIAL TECHNOLOGY****1-8 sem. hrs.**

Refer to Index for General Courses.

**499 MASTER'S THESIS****1-6 sem. hrs.**

# COLLEGE OF ARTS AND SCIENCES

**Dean:** Paul T. Schollaert. Office: 141 Stevenson Hall

The primary purpose of the College of Arts and Sciences is to provide a broadly based educational program in the liberal arts and sciences. The College includes the Departments of Biological Sciences, Chemistry, Communication, Economics, English, Foreign Languages, Geography-Geology, History, Mathematics, Philosophy, Physics, Political Science, Psychology, Social Work, Sociology-Anthropology, and Speech Pathology-Audiology. The College offers the core of the General Education program required of all undergraduates, a wide range of academic major and minor programs for meeting baccalaureate degree requirements, master's programs in most disciplines, and doctoral programs in Biological Sciences, English Studies, Mathematics Education, and School Psychology. Course offerings span the humanities, social and behavioral sciences, mathematics, and natural sciences.

## BIOLOGICAL SCIENCES (BSC)

**Chairperson:** H. Tak Cheung. Office: Julian Hall 210.

**Graduate Program Director:** Charles F. Thompson. Office: Felmley Science Annex 135.

**Graduate Faculty:** R. Anderson, J. Armstrong, V. Borowicz, D. Borst, L. Brown, D. Byers, A. Capparella, H. Cheung, M. Cook, K. Edwards, A. Eggert, V. Farmer-Dougan, P. Garris, R. Jayaswal, S. Juliano, A. Katz, S. Loew, C. Moore, W. Nichols, A. Otsuka, R. Preston, M. Reith, W. Riddle, S. Sakaluk, E. Thomas, C. Thompson, L. Vogel, D. Weber, D. Whitman, B. Wilkinson, D. Williams.

**Biology-Chemistry Joint Appointments:** M. Jones, P. Morse, S. Weldon.

The Department offers work leading to the M.S. and Ph.D. degrees. University requirements for these degrees are listed elsewhere in this catalog. All applicants are required to take the General Test of the Graduate Record Examination (GRE). Other departmental requirements are available from the Graduate Program Director and from the Department's Web site at [www.bio.ilstu.edu](http://www.bio.ilstu.edu).

### Master's in Biological Sciences

Master's degree students may choose one of three options:

1. Research-thesis option (32 semester hours)
2. Comprehensive option (32 semester hours)
3. 39-hour option

All Master's degree students are required to complete BSC 462, BSC 463, and BSC 470. Other required courses include BSC 420-Seminar (two semester hours for students taking the research-thesis option or the comprehensive option, and three semester hours for students taking the 39-hour option) and BSC 400-Independent Study (two semester hours for students taking the comprehensive option or the 39-hour option). The department will determine additional course work specific to each of the options. Students pursuing the research-thesis option may elect to pursue a sequence in Biotechnology or Conservation Biology.

**Biotechnology:** Students pursuing the research-thesis option may elect to pursue a sequence in Biotechnology, an interactive discipline linking cell and molecular biology, biochem-

istry, genetics, microbiology, and immunology. The sequence is designed to enhance students' competency in the theoretical and applied aspects of biotechnology principles, techniques, and their application. For further information, visit the Department's Web site at [www.bio.ilstu.edu](http://www.bio.ilstu.edu).

**Conservation Biology:** Students pursuing the research-thesis option may elect to pursue a sequence in Conservation Biology, a discipline linking ecology, genetics, and systematics to applied problems in biodiversity preservation and ecosystem function maintenance. For further information, visit the Department's Web site at [www.bio.ilstu.edu](http://www.bio.ilstu.edu).

### Ph.D. in Biological Sciences

Students working toward the Ph.D. degree in Biological Sciences may pursue research in most of the major subdisciplines. The scholar-educator option in the Ph.D. program combines traditional training in research with formal training in university- and college-level teaching for those students planning a career in teaching and research at liberal arts colleges and comprehensive universities. Course work will include BSC 420-Seminar (4 semester hours).

### Courses

#### 300 READINGS IN BIOLOGICAL SCIENCES

1 sem. hr.

Reading and discussion of classical and modern biological literature. Prerequisite: two of BSC 201, 203, 219. Majors only or consent of instructor.

#### 301 ENTOMOLOGY

4 sem. hrs.

Biology and taxonomy of insects. Lecture, lab, and field trips. Prerequisites: BSC 196, 197, and 201. Materials charge optional.

#### 306 REGIONAL AND AREA STUDIES

1-9 sem. hrs.

Intensive on-site studies of organisms and their environments. Prerequisite: Consent of instructor. Field work.

#### 307 METHODS IN THE TEACHING OF BIOLOGY

2 or 3 sem. hrs.; (see Biology teacher education adviser.)

Strategies, curricula, and materials applicable to teaching secondary school science. 35 hrs clinical experiences included, 4 hours, Type 1-6. Prerequisite: C&I 216 or equivalent, or concurrent registration. Not for graduate credit for biology students.

#### 308 FIELD BIOLOGY

3 sem. hrs.

Ecological communities of Central Illinois. Classification and identification of plants and/or animals. Prerequisites: BSC 201 or equivalent. Lecture, lab, and field trips.

#### 321 MOLECULAR AND DEVELOPMENTAL GENETICS

4 sem. hrs.

Organization of the genome; structure of chromatin and chromosomes; genetic regulation of development; molecular bases of DNA functions. Lecture and laboratory. Prerequisites: BSC 203 and 219. Materials charge optional.

**326 PLANT PHYSIOLOGY****4 sem. hrs.**

Plant structure and function: photosynthesis, translocation, growth, and development. Laboratory emphasis on independent experimentation. Lecture and laboratory. Prerequisite: BSC 203. Materials charge optional.

**329 HUMAN GENETICS****3 sem. hrs.**

Detection, expression, transmission, and molecular manipulation of human traits; emphasis on medical genetics. Lecture. Prerequisite: BSC 203 and 219.

**334 INTRODUCTORY MYCOLOGY****4 sem. hrs.**

Morphology, taxonomy, and evolution of fungi. Lecture and laboratory. Prerequisite: BSC 201.

**335 PLANT TAXONOMY****3 sem. hrs.**

Classification of flowering plants; taxonomic characters and data, patterns of diversity, and methods of classification; distinguishing characteristics of major taxa, names of major taxa, botanical nomenclature, and taxonomic reference tools. Prerequisite: BSC 222 or 223 and one of BSC 201, 203, 219.

**336 LABORATORY IN PLANT IDENTIFICATION****1 sem. hrs.**

Plant identification; identification tools and methods; descriptive morphology and terminology; field identification of flowering plants and major plant families; specimen collection, documentation and curation. Prerequisite: BSC 335.

**337 RESTORATION ECOLOGY****3 sem. hrs.**

Study of the ecology, restoration, and management of native plant communities. Lecture and laboratory. Prerequisite: BSC 201 or equivalent or consent of instructor.

**350 MOLECULAR BIOLOGY****3 sem. hrs.**

DNA structure and replication, the Genetic Code, transcription, translation, genetic regulation, RNA splicing, and transposons. Lecture. Prerequisites: BSC 203, 219 and 260; CHE 220, or 230 and 231 required. CHE 242 or 342 recommended.

**353 BIOTECHNOLOGY LABORATORY I:****DNA TECHNIQUES****3 sem. hrs.**

Application and theory of molecular techniques using prokaryotic systems, including DNA and protein analysis, DNA cloning and bacterial genetics. Lecture and lab. Material charge optional. Prerequisites: BSC 203, 219, 260; CHE 220 or 230-232. CHE 242 or 342 recommended. Not for credit if had BSC 352.

**354 BIOTECHNOLOGY LABORATORY II:****CELL BIOLOGY TECHNIQUES****3 sem. hrs.**

Application and theory of cell biology to study eukaryotic systems using biochemistry, cell culture, and immunology techniques. Lecture and lab. Material charge optional. Prerequisites: BSC 203; CHE 220 or 230-232. CHE 242 or 342 recommended. Formerly BSC 352.

**361 MICROBIAL PATHOGENS****4 sem. hrs.**

Pathogenesis, identification, cultivation and classification of bacteria, viruses, fungi and animal parasites associated with diseases of man. Lecture and laboratory. Prerequisite: BSC 203 and 260. Materials charge optional.

**367 IMMUNOLOGY****4 sem. hrs.**

Molecular, cellular, transplantation, and tumor immunology; antimicrobial immunity; immunochemistry. Lecture and laboratory. Prerequisites: BSC 203 and 260. Materials charge optional.

**368 VIROLOGY****4 sem. hrs.**

Bacterial, avian, insect, plant and mammalian viruses and their involvement in disease and cancer. Viral diagnostics. Lecture and laboratory. Prerequisites: BSC 203 and 260. Materials charge optional.

**383 PARASITOLOGY****4 sem. hrs.**

Host-parasite relationships, life histories, and morphology of arthropod, helminth, and protozoan parasites of animals. Lecture and laboratory. Prerequisite: BSC 203 and 260. Materials charge optional.

**395 BIOLOGY OF THE LOWER VERTEBRATES****4 sem. hrs.**

Fish, amphibians, and reptiles; behavior, ecology, evolution, systematics, zoogeography, reproduction, and adaptive significance of morphology. Lecture and laboratory. Prerequisite: one of BSC 201, 203, 219. Materials charge optional.

**396 AVIAN BIOLOGY****4 sem. hrs.**

Origin, evolution, diversity, systematics, biogeography, morphology, physiology, ecology, behavior, and conservation biology of birds. Lecture, lab and field trips. Prerequisite: BSC 201.

**400 INDEPENDENT STUDY****1-4 sem. hrs.**

See General Course Offerings.

**403 PLANT ECOLOGY****4 sem. hrs.**

Community ecology, diversity, niche metrics, ordination, gradient analysis, succession, sampling techniques, pollination biology, and allelopathy. Lecture and laboratory. Prerequisite: BSC 201.

**404 POPULATION ECOLOGY****4 sem. hrs.**

Population regulation, competition, predator-prey relations, and evolution of life-history characteristics. Lecture and laboratory. Prerequisite: BSC 201.

**405 COMMUNITY ECOLOGY****4 sem. hrs.**

Diversity and stability of natural communities, niche theory, resource partitioning and species packing, coevolution of plants and animals. Lecture and laboratory. Prerequisite: BSC 201.

**406 CONSERVATION BIOLOGY****3 sem. hrs.**

Principles of conservation ecology, conservation genetics, and conservation systematics, with applications to biodiversity preservation and ecosystem function maintenance. Lecture. Prerequisites: BSC 201 and 219, or equivalent.

**410 BIOLOGICAL SCANNING ELECTRON MICROSCOPY****2 sem. hrs.**

Electron optics, beam-specimen interaction, image characteristics, specimen preparation techniques. Lecture and laboratory. Prerequisite: Consent of instructor.



**415 ADVANCED CELL BIOLOGY****3 sem. hrs.**

Analysis of structure and function of eukaryotic cells, including cytoskeleton, cell-cell interactions, nuclear organization, signaling mechanisms, and cell division. Lecture. Prerequisites: BSC 203, 219, and CHE 242 or 342 recommended.

**416 CELLULAR PHYSIOLOGY****5 sem. hrs.**

Molecular and biophysical bases of cellular function including cell structure, origin of life, enzymes, metabolism, energetics, membrane structure, and active transport. Lecture and laboratory. Prerequisite: Consent of instructor.

**417 CYTOLOGY****4 sem. hrs.**

Recent developments and methodologies concerning ultra-structural organization of cells. Structural-functional aspects, interactions, genetic material, and origin of organelles and the nucleus. Lecture and laboratory.

**418 BIOLOGICAL MICROSCOPY****4 sem. hrs.**

Theory and practice of scanning and transmission electron microscopy and advanced light microscopy, including specimen preparation and presentation of images. Lecture and laboratory. Prerequisite: Consent of instructor.

**419 MOLECULAR BIOLOGY OF THE GENE****4 sem. hrs.**

The gene as a unit of structure, replication, function, mutation, recombination, and regulation. Lecture. Prerequisites: BSC 219 and 260, or consent of instructor.

**420 GRADUATE SEMINAR IN BIOLOGY****1 sem. hr.**

Topics in various fields of biology. May be repeated for credit.

**421 CYTOGENETICS****4 sem. hrs.**

Intensive consideration of meiosis and mitosis. Nature and consequences of altered chromosomal structures and numbers and their employment in genetic engineering. Lecture and laboratory. Prerequisite: BSC 219.

**420 ADVANCED STUDIES IN SPECIALIZED FIELDS****1-4 sem. hrs.**

Current advances in specialized fields of the biological sciences. May be repeated for credit in different fields. Prerequisite: Consent of instructor.

**422 ANALYTICAL AND COMMUNICATION TOOLS FOR BIOLOGISTS****1 sem. hrs.**

Introduction to software and applications for biological research, data management, analysis, presentation, communication, and teaching. Prerequisite: Graduate standing or consent of instructor.

**423 ORIENTATION TO BIOLOGY GRADUATE STUDIES****1 sem. hr.**

Introduction to experimental design, data collection and management, grant and manuscript writing, publishing, and public speaking. Lecture. For new graduate students.

**465 ADVANCED PARASITOLOGY****3 sem. hrs.**

Immunobiology and disease ecology of selected helminth and protozoan parasites in vertebrate and invertebrate hosts. Lecture and laboratory. Prerequisite: BSC 383, or consent of instructor.

**466 MICROBIAL PHYSIOLOGY****3 sem. hrs.**

Molecular and cellular aspects of microorganisms: growth, metabolism and its control, membrane and cell envelope structure and function, transport, chemotaxis, antibiotic action, adaptations to extreme environments. Lecture. Prerequisites: BSC 260 and CHE 242 or 342.

**467 MICROBIAL GENETICS****4 sem. hrs.**

Inheritance and variation in bacteria and their viruses; recombination, regulation, gene transfer, and other genetic phenomena. Emphasis on molecular basis of microbial genetics. Lecture. Prerequisites: BSC 260 and 219.

**470 EVOLUTION****3 sem. hrs.**

Origin of life, sources of genetic variation, molecular evolution, phylogenetic reconstruction, micro- and macroevolutionary processes. Lecture. Prerequisites: BSC 203, 219, and 297 or equivalent recommended.

**486 ETHOLOGY****4 sem. hrs.**

Behavior of animals under natural conditions. Lecture and laboratory. Prerequisite: BSC 199, or consent of instructor.

**488 SYSTEMATIC BIOLOGY****3 sem. hrs.**

Species concepts; infra- and supraspecific categories; geographic variation; phylogenetic reconstruction; molecular and morphological characters; evolutionary, phenetic, and cladistic classification; nomenclature. Lecture. Prerequisite: BSC 219 or equivalent..

**490 BIOSTATISTICS****3 sem. hrs.**

Statistical techniques encountered in biological research with emphasis on proper use and interpretation of analyses. Lecture.

**491 INTERNSHIP IN COLLEGE TEACHING IN BIOLOGICAL SCIENCES****3 sem. hrs.**

Credit for the course is given in Curriculum and Instruction (see C&I 491). Prerequisite: Consent of department chairperson.

**495 GRADUATE RESEARCH IN BIOLOGICAL SCIENCES****1-3 sem. hrs.**

Field and/or laboratory research in one of the biological sciences involving a participation in the scientific process with faculty and other graduate students with the purpose of conducting independent research and/or developing additional research skills and technical expertises. Prerequisite: Project proposals must be approved by a supervising faculty member, the student's graduate advisor (if in the thesis program) and chair of the graduate studies prior to reg. Students are expected to work on average a minimum of 3 hrs. per week for each hour of credit. May be repeated; max of 4 hours may be counted toward degree req.

**499 MASTER'S THESIS**

1-6 sem. hrs.

**599 DISSERTATION RESEARCH (Ph.D.)**

Variable credit

**CHEMISTRY (CHE)****Chairperson:** Michael E. Kurz. Office: Julian Hall 222.**Graduate Program Director:** John Hansen.**Graduate Faculty:** J. Baur, R. Bunting, G. Ferrence, J. Friesen, B. Gregory, J. Hansen, S. Hitchcock, W. Hunter, M. Jones, M. Kurz, T. Lash, G. McGinnis, P. Morse, R. Nagorski, R. Quandt, O. Rothenberger, J. Standard, C. Stevenson, L. Szczepura, J. Webb, S. Weldon.**Master's Degree in Chemistry**

The department offers a single thesis-based M.S. degree. A minimum of eight formal hours in Chemistry 490 (Research) and Chemistry 499 (Thesis) are required. Students select an adviser and work closely with that faculty member to complete an original research thesis project. Upon completion of a written thesis, a final oral examination/thesis defense is required.

The program is broad-based and allows students to specialize in any of the subdisciplines (physical, organic, inorganic, analytical, biochemistry, or chemical education), although course work is required in at least four areas. The courses required to fulfill the M.S. degree include 22 hours of 400 and/or 300 level courses including a minimum of 12 credit hours of courses at the 400 level. Two hours of credit in Seminar (Chemistry 492) are also required.

**Admission Requirements**

To be admitted to the master's program a student must have at least a 2.6 GPA (on a scale in which A equals 4) for the last 60 hours of undergraduate work. The Department considers GRE scores for granting assistantships. Results of the General Test of the Graduate Record Examination should be sent to the Department's Graduate Program Director. A minimum TOEFL score of 600 (250 for computer-based testing) is recommended for international students to be considered for admission to the program.

**Courses**

Credit for the following courses is not to be applied to the advanced degree in chemistry: 301, 360, 361, 362, 363, 398.

**315 ANALYTICAL CHEMISTRY**

3 sem. hrs.

Emphasis on modern instrumental methods of chemical analysis including electroanalytical, optical, and chromatographic methods. Prerequisite: CHE 215; CHE 362 or concurrent registration. Lecture and laboratory. Materials and locker charge optional.

**342 GENERAL BIOCHEMISTRY I**

3 sem. hrs.

Survey of the structure-function relationships of proteins, carbohydrates, lipids and nucleic acids, dynamic equilibria, energetics, reaction kinetics/mechanisms and metabolism. Prerequisites: C or better in CHE 232, or 1 year of organic chemistry or consent of instructor. Not for credit if had CHE 242.

**343 BIOCHEMISTRY LABORATORY**

2 sem. hrs.

Application of biochemical principles and methods discussed in companion course, CHE 342. Prerequisite: CHE 342, or concurrent registration, or CHE 242. Lecture and laboratory. Materials and locker charge optional.

**344 GENERAL BIOCHEMISTRY II**

3 sem. hrs.

Survey of important aspects of intermediary metabolism, metabolic regulation, membrane transport, and bioenergetics. Topics will include hormonal controls and immunochemical response. Prerequisite: B or better in CHE 242 or C or better in CHE 342.

**350 INORGANIC CHEMISTRY**

3 sem. hrs.

Survey of modern inorganic chemistry including structure of inorganic compounds, coordination chemistry, non-aqueous solvents, and selected inorganic reactions. Prerequisite: CHE 362.

**351 INORGANIC CHEMISTRY LABORATORY**

1 sem. hr.

Experiences in the modern techniques of synthesis and quantitative characterization of inorganic materials. Specific experiments and techniques may vary but will generally include spectroscopic, microscopic, electrochemical, conductivity, magnetic susceptibility, thermal and vacuum line techniques and experiments. Prerequisite: CHE 350 or concurrent registration. Materials charge optional.

**380 TOPICS IN CONTEMPORARY CHEMISTRY**

1-3 sem. hrs.

New concepts and recent developments in the fields of chemical education, organic, inorganic, analytical, physical, and biochemistry. May be repeated. Prerequisite: CHE 232; certain topics may require CHE 360.

**412 TOPICS IN ANALYTICAL CHEMISTRY**

1-3 sem. hrs.

Advanced study in selected areas of modern analytical chemistry. Course may be repeated for credit. Prerequisite: CHE 315.

**414 CHEMICAL SEPARATIONS**

2 sem. hrs.

A study of the fundamental and practical aspects of separation methods including solvent extraction, chromatography, and exclusion processes. Prerequisite: CHE 315 or equivalent.

**422 MECHANISMS IN ORGANIC CHEMISTRY**

3 sem. hrs.

A critical examination of nucleophilic, electrophilic, and free radical reaction mechanisms including the study of the stability and reactivity of carbanions, carbocations and carbenes. Prerequisites: CHE 232 and credit or registration in 360.

**424 TOPICS IN ORGANIC CHEMISTRY**

1-3 sem. hrs.

Lectures in selected topics of modern organic chemistry. Course may be repeated for credit. Prerequisite: CHE 232 or equivalent.

**426 ORGANIC SYNTHESIS**

3 sem. hrs.

Survey of stereoselective carbon-carbon single and double bond formation, functional group interconversion, multi-step synthetic strategies and an introduction into enantioselective reactions. Prerequisite: CHE 232 or equivalent.

**428 HETEROCYCLES****3 sem. hrs.**

Advanced study of the major classes of heterocyclic compounds; includes detailed discussion of aromaticity, conformational analysis, ring synthesis, reactions and nomenclature.

**440 TOPICS IN BIOCHEMISTRY****1-3 sem. hrs.**

Advanced study in selected areas of biochemistry. May be repeated for credit in consecutive semesters as different topics are introduced. Prerequisite: One semester of biochemistry.

**442 PROTEINS****3 sem. hrs.**

Chemical forces governing overall protein structure as related to biological function. Methods of protein purification and structural analysis are examined. Prerequisites: CHE 242 or 342 or equivalent.

**444 LIPIDS****3 sem. hrs.**

A survey of lipids: structures, functions, intermediary metabolism, metabolic regulation, and techniques used to isolate, characterize and quantitate lipids. Prerequisites: CHE 342 or 242 required. CHE 344 recommended.

**450 ADVANCED INORGANIC CHEMISTRY****3 sem. hrs.**

Interpretation of contemporary theories and their application to selected areas of molecular structure and reaction dynamics in inorganic systems. Prerequisite: CHE 350.

**454 TOPICS IN INORGANIC CHEMISTRY****1-3 sem. hrs.**

Advanced study in selected areas of modern inorganic chemistry. Course may be repeated for credit. Prerequisite: CHE 350.

**456 COORDINATION CHEMISTRY****2-3 sem. hrs.**

Coordination chemistry is the study of metal complexes; their preparation, physical and spectral characterization, kinetics and mechanisms of reactions, and stability.

**460 QUANTUM CHEMISTRY****3 sem. hrs.**

An introduction to the methods of obtaining exact and approximate solutions to the Schroedinger equation, and the use of these solutions in the description of atomic and molecular systems. Prerequisites: CHE 362 and MAT 175. MAT 340 is also recommended.

**462 INTRODUCTION TO STATISTICAL THERMODYNAMICS****3 sem. hrs.**

An introduction to the methods and theorems of statistical mechanics, its relationship to chemical thermodynamics, and application to molecular models of chemical interest. Prerequisite: CHE 362.

**464 KINETICS AND DYNAMICS****3 sem. hrs.**

Advanced study of kinetics and dynamics. Topics range from basic kinetics to transition state theory, with an emphasis on modern techniques. Prerequisite: CHE 362.

**466 TOPICS IN PHYSICAL CHEMISTRY****1-3 sem. hrs.**

Advanced study in selected areas of modern physical chemistry. Course may be repeated for credit. Prerequisite: CHE 362.

**490 RESEARCH IN CHEMISTRY****Variable credit**

Research involving the gathering of data to form the basis for the thesis. Open only to advanced graduate students. The course can be repeated for credit. Approval of the chairperson of the department is required.

**492 SEMINAR IN CHEMISTRY****1 sem. hr.**

Survey of current work in chemistry both in pure research and in the application of newer theories of chemistry to the teaching of chemistry at the secondary and college levels. May be repeated for a total of two semester hours.

**498 PROFESSIONAL PRACTICE IN CHEMISTRY****1-12 sem. hrs.**

Provides graduate students with the opportunity to obtain supervised work experience in chemistry. Available as 498.50 Co-op in Chemistry. Practical experience by employment in an industrial or government laboratory. Graduate students must have completed at least one semester of graduate courses (minimum GPA of 3.0) before the first off-campus assignment is made. No more than 2 credit hours of 498.50 can be counted towards the 22 hour coursework requirement for the degree and no credit can be awarded toward the 12 hour 400-level course requirement for the degree.

**499 MASTER'S THESIS****1-6 sem. hrs.**

## COMMUNICATION (COM)

**Chairperson:** Catherine Konsky. Office: Fell 434.

**Graduate Program Director:** Mark Comadena.

**Graduate Faculty:** D. Allen, J. Baldwin, J. Blaney, R. Carrier, M. Comadena, B. Cupach, C. Cutbirth, S. Hunt, J. Kang, S. Kapoor, D. Kazoleas, Y. Kim, C. Konsky, S. Metts, M. Moffitt, P. O'Sullivan, S. Perry, W. Semlak, C. Simonds, F. Wisely, A. Wolfe.

The department offers work leading to the M.A. and M.S. degrees in Communication.

### Admission Requirements

To be considered for admission to the master's degree program in Communication, an applicant must have a minimum GPA of 3.0 for the last 60 hours of course work completed, OR have a combined Verbal and Quantitative score on the Graduate Record Examination (GRE) of at least 1,000. International students are additionally required to obtain a minimum TOEFL score of 600 to be considered for admission to the Master's degree program in Communication. In addition, applicants must arrange to have three letters of recommendation forwarded to the department.

### Program Requirements

OPTION I: A minimum of 32 hours of credit, including completion of a master's thesis. Two courses are required: COM 422 and COM 497. The remaining courses are selected by the student and advisor. At least 15 hours must be completed at the 400 level (excluding COM 498 and COM 499).

OPTION II: A minimum of 39 hours of credit and one revised seminar paper or seminar project. Two courses are required: COM 422 and COM 497. The remaining courses are selected by the student and advisor. At least 27 hours must be completed at the 400 level (excluding COM 498). No more than three hours of COM 400 may be applied toward the degree. A revised seminar paper or seminar project must be submitted to the graduate advisor by the middle of the student's last semester.

## Courses

### 302 COMMUNICATION CRITICISM

3 sem. hrs.

The course develops critical skills for describing, interpreting, and evaluating communication from different theoretical perspectives. Prerequisite: COM 111.

### 303 CONTROVERSY AND CONTEMPORARY SOCIETY

3 sem. hrs.

Contemporary communication on current, significant, controversial issues. Prerequisite: COM 111.

### 304 FREEDOM OF SPEECH AND PRESS

3 sem. hrs.

A study of First Amendment rights. Emphasis on Supreme Court decisions relating to political dissent, obscenity, provocation and demonstration, and press freedom. Prerequisite: COM 111.

### 318 SOCIAL DYNAMICS OF COMMUNICATION TECHNOLOGIES

3 sem. hrs.

Examination of social dynamics of mediated communication, emphasizing implications of new communication technologies for social institutions and social change. Prerequisite: COM 218 or consent of instructor.

### 319 COMPUTER GRAPHICS

3 sem. hrs.

Combination of graphic techniques and computer programming as means of industrial communication applied to solution and interpretation of technological problems. Also offered as IT 319.

### 321 CAMPAIGN COMMUNICATION AND MESSAGE DESIGN

3 sem. hrs.

Application of theory and research to campaign strategy and message design. Emphasis: ethical, informative, and persuasive messages in commercial, political, and social issue campaigns. Prerequisite: COM 111.

### 323 THEORY AND RESEARCH IN SMALL GROUP COMMUNICATION

3 sem. hrs.

Theoretical and experimental literature dealing with small group communication processes. Prerequisite: COM 111 and 297.

### 324 THEORY AND RESEARCH IN PERSUASION

3 sem. hrs.

A survey of contemporary theoretical and empirical literature dealing with the question of how an individual's attitudes, beliefs, and social behaviors are affected by communication. Prerequisite: COM 111 and 297.

### 325 THEORY AND RESEARCH IN INTERPERSONAL COMMUNICATION

3 sem. hrs.

Analysis of interpersonal communication research and its implications for developing, maintaining, and terminating relationships. Focus on developing communicative competence. Prerequisite: COM 111 and 297.

### 329 ORGANIZATIONAL COMMUNICATION

3 sem. hrs.

An examination of theoretical and experimental literature dealing with communication in an organizational setting. Prerequisite: COM 111.

### 331 HUMAN COMMUNICATION AND THE AGING PROCESS

3 sem. hrs.

An examination of the particular communication needs of the aging and current research in the field. Prerequisite: COM 111 or SOC 211.

### 340 COMMUNITY RELATIONS

3 sem. hrs.

Basic principles, problems, and practices used in developing and implementing successful community relations programs for organizations in the 21st century. Prerequisites: COM 111 and 297.

### 350 PUBLIC OPINION ISSUES

3 sem. hrs.

Contemporary conceptions of public opinion and the processes of opinion creation, maintenance, and expression through communication. Prerequisites: COM 111 and 297.

### 355 INTERNATIONAL PUBLIC RELATIONS

3 sem. hrs.

Theory and research related to the practice of public relations across cultural and national boundaries. Application of theory to practical problems. Prerequisites: COM 111 and 178 or consent of instructor.

### 360 MASS COMMUNICATION: THEORY AND EFFECTS

3 sem. hrs.

A critical examination of channel and receiver variables and their effects on the act of moving information through a given medium. Students participate in at least one research project of their design. Prerequisite: COM 111, 160, and 260.

### 361 REGULATION OF THE COMMUNICATION INDUSTRY

3 sem. hrs.

The legal background of mass media, specific laws affecting media operations and industry efforts at self regulation. Prerequisite: COM 111 and 160.

### 362 NON-BROADCAST TELEVISION

3 sem. hrs.

Television as a means of instruction in terms of research, technique, utilization, and evaluation. Lecture and lab. Prerequisite: COM 111.

### 363 PRIVACY AND INFORMATION PROCESSING

3 sem. hrs.

An examination of concepts about individual privacy as related to the processing of information in a technological society. The study of institutional procedures with regard to the dissemination of sensitive information. Prerequisite: COM 111.

**364 BROADCAST MANAGEMENT****3 sem. hrs.**

The role and functions of broadcast media managers in society. Prerequisites: COM 111, 160, and 264.

**365 GRAPHIC COMMUNICATION I****3 sem. hrs.**

Fundamental skills and techniques for mounting, lettering, coloring, illustrating, and reproducing graphic materials. Prerequisite: COM 240. Lecture and lab. Materials charge optional. Clinical hours available.

**366 GRAPHIC COMMUNICATION II****3 sem. hrs.**

Design and practice in the application of skills and knowledge to specific production problems. Student must integrate skills, knowledge of materials, design, and communication theory. Prerequisite: COM 365. Lecture and lab. Materials charge optional.

**367 ETHICAL PROBLEMS IN MASS COMMUNICATION****3 sem. hrs.**

Analysis of ethical problems in news, entertainment, and persuasive media. Students develop analytical skills using cases and research projects. Prerequisites: COM 111; PHI 138 or consent of instructor.

**369 INTERNATIONAL COMMUNICATION SYSTEMS****3 sem. hrs.**

Examination of mass communication systems employed in foreign countries, their role in national, social and cultural development. Prerequisite: COM 111.

**370 PSYCHOLOGY OF LANGUAGE****3 sem. hrs.**

Theories and experimental research relating to the development and functions of language. Prerequisite: COM 111 and 297.

**371 POLITICAL COMMUNICATION****3-4 sem. hrs.**

Basic theory and research relating to political campaign communication. Special attention is paid to the persuasive process of political campaigning focusing upon the role of the media, the candidate, image creation, and other selected topics on political campaign communication. Prerequisite: COM 111; 6 hrs. COM or 6 hrs. POS recommended.

**372 INTERCULTURAL COMMUNICATION****3 sem. hrs.**

Theories and research relating to face-to-face communication among people from different cultural, national, ethnic, or racial backgrounds. Prerequisites: COM 111 and 297.

**381 PROBLEMS IN THE TEACHING OF COMMUNICATION****3 sem. hrs.**

Identification of common and unique problems in teaching communication concepts and skills. Approaches to resolving classroom problems. Clinical hours available. Prerequisites: C or better in C&I 214, 215, 216; and PSY 215 (6 hrs.) or concurrent registration.

**385 EDITORIAL AND FEATURE WRITING****3 sem. hrs.**

Advanced training in writing feature articles and editorials for newspapers and magazines. Prerequisites: COM 111, 165, and 265.

**392 TOPICS IN COMMUNICATION INSTRUCTION****1 sem. hr.**

Identification and development of new instructional content, approaches, strategies, and materials for selected oral communication concepts in educational and business classrooms.

**422 PROSEMINAR IN COMMUNICATION****3 sem. hrs.**

Introduction to theory, empirical research, and methods in communication. Includes units on the process of communication and a survey of theory and research in the following areas: language, nonverbal, interpersonal, small group, rhetorical theory, persuasion, and mass communication. Must be taken by first year graduate students who have not had equivalent course.

**424 SEMINAR IN PERSUASION****3 sem. hrs.**

The examination of selected areas of theory and research in persuasion. Prerequisite: COM 324, or consent of instructor.

**425 SEMINAR IN NONVERBAL COMMUNICATION****3 sem. hrs.**

Advanced study of the elements and functions of nonverbal communication in human interaction. May be repeated if different material is covered. Prerequisite: COM 225 or its equivalent recommended.

**433 ADMINISTRATION OF COMMUNICATION ORGANIZATIONS****3 sem. hrs.**

Principles and practices of organizing and managing communication programs in school systems, colleges, business, and industry. Considers services, facilities, budgeting, personnel, public relations, and evaluation.

**434 RESEARCH IN INSTRUCTIONAL MEDIA****3 sem. hrs.**

Critical analysis of selected research studies in institutional communications and technology. Research methods and sources of data in major categories of media research.

**435 COMMUNICATION TRAINING & DEVELOPMENT****3 sem. hrs.**

Involves identification of instructional problems; analysis of resources and alternatives; and design of effective solutions with emphasis on communication programs for training and development.

**436 MESSAGE DESIGN****3 sem. hrs.**

Planning and designing mediated messages. Concepts developed are applied to the production and evaluation of a selected design problem.

**460 SEMINAR IN MASS COMMUNICATION****3 sem. hrs.**

May be repeated for a total of six semester hours if different material is covered. Prerequisite: COM 360, or consent of instructor.

**461 SEMINAR IN COMMUNICATION LAW AND POLICY****3 sem. hrs.**

A theoretical examination and analysis of the formation and impact of judicial and governmental policy decisions on communication, focusing on freedom of speech and press. Prerequisites: COM 304 or 361, or consent of instructor.

**462 SEMINAR IN CRITICAL STUDIES  
IN MASS COMMUNICATION**  
3 sem. hrs.

Examination of theory and research in criticism of mass communication texts, genres, and institutions. Practice in writing media criticism.

**463 SEMINAR IN MASS MEDIA EFFECTS**  
3 sem. hrs.

Examines theory and research on mass media effects from a social science perspective. Students develop individual or group research projects. Prerequisite: Consent of instructor. Some background in research methods (e.g., COM 297) is strongly recommended.

**472 SEMINAR IN INTERCULTURAL/  
INTERETHNIC COMMUNICATION**  
3 sem. hrs.

Research and theory regarding culture, "race," and ethnicity as these relate to communication, including verbal/nonverbal differences, cultural adjustment, conflict resolution, and communication of intolerance. Prerequisites: COM 422 and 497, or consent of instructor.

**473 SEMINAR IN QUALITATIVE  
COMMUNICATION RESEARCH**  
3 sem. hrs.

Introduction to qualitative research methods including open-ended questionnaire, in-depth interview, conversation/discourse analysis, rhetorical research, media analysis, and ethnography of communication. Prerequisites: COM 422 and 497, or consent of instructor.

**478 SEMINAR IN PUBLIC RELATIONS  
RESEARCH: CASE STUDIES**  
3 sem. hrs.

Application of communication theory to the analysis of public relations problems through the use of student-conducted case studies. Prerequisites: COM 422 and 497.

**481 SEMINAR IN COMMUNICATION EDUCATION**  
3 sem. hrs.

Examination of recent developments in theory and research in communication education.

**485 SEMINAR IN APPLIED COMMUNICATION**  
3 sem. hrs.

Application of communication theories to practical organizational or social problems. May be repeated if different material is covered. Prerequisites: COM 422 and 497 or consent of instructor.

**491 INTERNSHIP IN COLLEGE TEACHING IN  
COMMUNICATION**  
3 sem. hrs.

Credit for the course is given in C&I. (See C&I 491.)

**492 SEMINAR IN COMMUNICATION THEORY**  
3 sem. hrs.

Advanced examination of selected areas of communication theory. Prerequisite: Consent of instructor.

**494 SEMINAR IN SMALL GROUP  
COMMUNICATION**  
3 sem. hrs.

May be repeated for a total of six semester hours if different material is covered. Prerequisite: COM 323, or consent of instructor.

**495 SEMINAR IN ORGANIZATIONAL  
COMMUNICATION**  
3 sem. hrs.

May be repeated for a total of six semester hours if different material is covered. Prerequisite: COM 329, or consent of instructor.

**496 SEMINAR IN RHETORICAL THEORY**  
3 sem. hrs.

May be repeated for a total of six semester hours if different material is covered.

**497 INTRODUCTION TO RESEARCH  
METHODOLOGY**  
3 sem. hrs.

Introduction to methods of scholarly research and the critical evaluation of research in communication. Must be taken by first year graduate students. May be repeated for a total of six semester hours by advanced students as they pursue special research problems.

**498 PROFESSIONAL PRACTICE IN  
COMMUNICATION**  
9 hrs. maximum.

Refer to Index for General Courses.

**499 MASTER'S THESIS**  
1-6 sem. hrs.

## ECONOMICS (ECO)

**Chairperson:** David D. Ramsey. Office: Stevenson 425.

**Graduate Program Director:** Hassan Mohammadi.

**Graduate Faculty:** J. Carlson, J. Chizmar, R. Cohn, R. Goel, L. Hiebert, D. Loomis, H. Mohammadi, A. Ostrosky, R. Ram, D. Ramsey, D. Rich, R. Singh, N. Skaggs, M. Walbert, K. Zhang.

The Department of Economics offers work leading to the M.A. or M.S. degree in applied economics. All students must complete five core courses: ECO 331, 438, 440, 441, and ENG 349. Four program options are available:

**Thirty-nine hour capstone option:** Students select a concentration in an applied economics field, including business economics, public policy, monetary economics/finance, community development, and human resources. Not all concentrations will be offered each year. (See the Graduate Program Director for schedule.) The thirty-nine hours of credit must include the core courses (16 hours); a 2-hour capstone project (ECO 495) taken in conjunction with any of the following 3-hour courses: ECO 405, 415, 416, 425, 435, 445, 450 or 490.04; and at least 18 hours of other general electives, of which, six hours must be taken outside Economics and selected with the Graduate Program Director. The Graduate Program Director may, in certain cases, approve enrollment in ECO 495 not in conjunction with any of the 400-level field courses listed above. For the 39-hour capstone option, 18 hours of 400-level course work are required inclusive of the 2 hours of ECO 495.

### Applied Community and Economic Development

This sequence is designed for: (a) returned Peace Corps volunteers, (b) students with experiences equivalent to Peace Corps, or (c) students preparing to enter the Peace Corps. The thirty-nine hours of credit must include the core courses (16 hours),

POS 471, POS 473, GEO 370, ECO 490.04 (4 hours), and internship, ECO 498.03 (5-6 hours), a 2-hour capstone project (ECO 495), and 2-3 hours of general electives.

### **Electricity, Natural Gas, and Telecommunications Economics**

This sequence emphasizes the application of economic analysis to the telecommunications, electric, and natural gas industries. The thirty-nine hours of credit must include the core courses (16 hours); three courses (9 hours) in regulatory economics, including ECO 335, 435, and 436; a 2-hour capstone project (ECO 495) taken in conjunction with ECO 436; an internship, ECO 498.02 (6 hours); and 6 hours of general electives. At least 2 hours must be outside Economics, selected in consultation with the Graduate Program Director.

**Thirty-three hour thesis option:** This option is appropriate for students whose interests lie outside one of the applied fields noted above and for those who intend to pursue doctoral-level studies in economics or a related discipline. The thirty-three hours of credit must include the core courses (16 hours); 11 or more hours of general electives, at least 6 hours of which must be at the 400-level; and at least 4 hours of ECO 499. Elective courses outside the Department may be taken with the consent of the Graduate Program Director.

### **Admission Requirements**

Program applicants must submit Graduate Record Examination scores. In normal circumstances and without additional information to indicate potential success in the program, a minimum acceptable score is 950 (combined verbal and quantitative). Admission to the program without course deficiencies requires that the student has successfully completed principles of economics, a basic course in calculus and in statistics, and courses in intermediate microeconomic and macroeconomic theory. For students with a strong undergraduate quantitative background, the course requirements in intermediate theory may be waived by the department. An applicant must have earned at least a 3.0 GPA on a 4.0 scale in the last four of the six required courses.

### **Courses**

#### **320 INDUSTRIAL ORGANIZATION**

**3 sem. hrs.**

Theoretical and empirical analysis of basic influences on industrial markets and performances. Market practices, the role of competition, and related policy issues. Prerequisite: One 200-level ECO course.

#### **326 ECONOMICS OF HUMAN RESOURCES**

**3 sem. hrs.**

Theoretical and empirical analysis of labor markets. Education and training, labor mobility, wage structure, discrimination, unemployment, wage and income policies. Prerequisite: ECO 225 or 240.

#### **327 COLLECTIVE BARGAINING AND INDUSTRIAL RELATIONS**

**3 sem. hrs.**

Economic analysis of U.S. industrial relations systems, determinants of its structure, collective bargaining environment and outcomes, trade union structure, administration, growth and power. Prerequisite: ECO 225 or 240.

#### **329 ECONOMIC ISSUES IN EDUCATION**

**3 sem. hrs.**

Analysis of economic issues in education including efficiency and equity, public vs. private provision of educational services, and education as human capital. Prerequisite: ECO 225 or 240.

#### **331 INTERMEDIATE ECONOMIC STATISTICS**

**3 sem. hrs.**

Intermediate level probability and sampling theory. Hypothesis testing. Estimation. Basic econometric principles. Use of common regression packages such as SPSS. Prerequisites: ECO 105, 138; MAT 121 or 145.

#### **335 ECONOMICS OF REGULATION AND ANTITRUST**

**3 sem. hrs.**

The origins, aims, methods and effects of economic regulation and antitrust with an emphasis on case studies. Prerequisite: ECO 240.

#### **345 INTERNATIONAL TRADE**

**3 sem. hrs.**

Study of the causes and consequences of international trade. Analysis of tariffs, quotas, other trade restrictions, current trade policy and multinational corporations. Prerequisite: ECO 240 or 245.

#### **346 INTERNATIONAL FINANCE**

**3 sem. hrs.**

Analysis of mechanisms of international payments and evaluation of the international monetary system. Topics include exchange rates, balance of payments, international monetary cooperation, and connections between the domestic and international economy. Prerequisite: ECO 241 or 245.

#### **350 PUBLIC FINANCE**

**3 sem. hrs.**

Analysis of the economic impacts of government expenditures and taxes on the allocation of resources and the distribution of income. Prerequisite: One 200-level ECO course.

#### **351 STATE AND LOCAL FINANCE**

**3 sem. hrs.**

Economic impacts of state and local government expenditures and taxes, cost benefit analysis, and intergovernmental fiscal relations. Prerequisite: One 200-level ECO course.

#### **353 THE ANALYSIS OF TIME SERIES**

**4 sem. hrs.**

Theory and application of regression and time series methods with reference to business and economic time series. Topics include regression, exponential smoothing, and Box-Jenkins methods. A computer statistical package will be used. Prerequisites: ECO 105, 331, or MAT 350, or consent of instructor. Also offered as MAT 353.

#### **355 ENVIRONMENTAL ECONOMICS**

**3 sem. hrs.**

Theoretical and empirical analysis of environmental pollution generation and of corrective policies. Emphasis upon the resource allocation implications of public policy decisions. Prerequisite: One 200-level ECO course.

#### **360 HISTORY OF THE AMERICAN ECONOMY**

**3 sem. hrs.**

Recent empirical studies and applications of economic theory to historical problems in an American context. Causes of the Great Depression, economics of slavery, and roles of agriculture, industry, and government in growth. Prerequisite: Two 200-level ECO courses.

**372 HISTORY OF ECONOMIC THOUGHT****3 sem. hrs.**

A study of economic analysis from the Mercantilists to the American Institutionalists. Relates earlier schools of thought to the contemporary. Prerequisite: Two 200-level ECO courses.

**401 SURVEY OF ECONOMIC PRINCIPLES****3 sem. hrs.**

Compresses into a single semester matters ordinarily covered in two semesters of Economic Principles. Enrollment is limited to graduate students who have had no more than one semester of previous study in economics. Cannot be presented for graduate credit by a degree candidate in Economics or in the MBA program.

**405 THEORIES OF ECONOMIC DEVELOPMENT****3 sem. hrs.**

Consideration of economic development theories and their implications for development policy to further economic growth. Prerequisite: ECO 205.

**415 MONETARY ECONOMICS****3 sem. hrs.**

The role of money in economic activity; the precise nature of the demand and supply conditions; the policy implications of theoretical conclusions with regard to money. Prerequisite: ECO 241.

**416 STABILIZATION THEORY AND POLICY****3 sem. hrs.**

Theory of economic policy, impacts of monetary and fiscal policies on employment and price levels, interest rates, growth, and balance of payments, implementation and coordination problems of monetary and fiscal policies. Prerequisite: ECO 241.

**425 ADVANCED LABOR ECONOMICS****3 sem. hrs.**

Advanced theoretical and empirical analysis of labor demand, labor force participation, and determinants of earnings. Emphasis on contemporary econometric practice. Prerequisites: ECO 438 and 440.

**435 PUBLIC UTILITY ECONOMICS****3 sem. hrs.**

Principles and institutions of economic regulation, with applications to regulatory reform in the electricity, natural gas and telecommunications industries. Prerequisites: ECO 335 and 440.

**436 SEMINAR IN REGULATORY POLICY****3 sem. hrs.**

Analysis of the economic issues facing the electric, natural gas, and telecommunications industries. Prerequisite: ECO 435.

**438 ECONOMETRICS I****3 sem. hrs.**

Study of the linear regression model, properties of estimators, simultaneous equations, and specification and identification in economic theory and economic problems. Prerequisite: ECO 331 or MAT 350, or consent of instructor.

**439 ECONOMETRICS II****3 sem. hrs.**

Advanced topics in econometrics, including modeling, simultaneous equations, Monte Carlo methods, spectral analysis. Fall only. Prerequisite: ECO 438.

**440 ADVANCED MICROECONOMIC THEORY I****4 sem. hrs.**

Optimization techniques, theory of consumer choice, theory of the firm, market equilibrium, and welfare economics. Prerequisites: ECO 240 and work in calculus.

**441 ADVANCED MACROECONOMIC THEORY I****3 sem. hrs.**

National income analysis with emphasis on the contemporary theories of consumption, investment and interest, also consideration of the level, growth, and fluctuations of national income. Prerequisites: ECO 241 and work in calculus.

**445 INTERNATIONAL ECONOMIC ANALYSIS****3 sem. hrs.**

Pure theory of trade, and international finance, growth and trade, balance of payments adjustment, and the theory of exchange rate determination are considered. Prerequisite: ECO 345.

**450 ADVANCED PUBLIC FINANCE****3 sem. hrs.**

Analysis of economic impacts of government expenditures and taxes on the allocation of resources and the distribution of income. Prerequisite: ECO 240. ECO 438 recommended.

**490 SEMINAR IN ECONOMICS****1-4 sem. hrs.**

May be repeated for credit if different topics. Available as 490.04 Seminar in Community Development. Prerequisite: Consent of department chairperson; in addition, for 490.04, must have had at least one course in Economics.

**491 INTERNSHIP IN COLLEGE TEACHING IN ECONOMICS****3 sem. hrs.**

Credit for the course is given in Curriculum and Instruction (see C&I 491).

**492 GRADUATE READINGS IN ECONOMICS****1-3 sem. hrs.**

For the graduate student who would benefit from a more specialized independent type of study adapted to his/her background and needs. Prerequisite: Consent of department chairperson and instructor.

**495 GRADUATE RESEARCH IN APPLIED ECONOMICS****2 sem. hrs.**

Taken in conjunction with any of the following: ECO 405, 415, 416, 425, 435, 445, 450, or 490.04. Involves independent out-of-class work on a project designed in consultation with the instructor in the associate 400-level course. Prerequisites: ECO 331, 438, 440, and 441.

**498 PROFESSIONAL PRACTICE IN ECONOMICS****1-12 sem. hrs.**

Practical experience in a professional capacity under the mentorship of a faculty member. Available as 498.01 Professional Practice: Co-op/Internship in Economics; 498.02 Professional Practice: Co-op/Internship in Electric, Natural Gas or Telecommunications Economics; 498.03 Professional Practice: Co-op/Internship in Community and Economic Development. Prerequisites: ECO 331, 438, 440 and 441 and a 3.0 or better GPA. A maximum of six hours may be submitted toward graduation. Will not count toward the 400-level course requirement.

**499 MASTER'S THESIS****1-6 sem. hrs.**



## ENGLISH (ENG)

**Chairperson:** Ronald Fortune. Office: Stevenson Hall 409-D.

**Graduate Program Director:** Ron Strickland.

**Graduate Faculty:** L. Brasseur, C. Breu, R. Broad, I. Brosnahan, L. Brosnahan, S. Burt, R. Carr, K. Coats, R. Cruz, R. Dammers, M. Demirci, C. DeSantis, P. Dunn, J. Elledge, R. Fortune, L. Getsi, C. Harris, V. Harris, B. Hawkins, D. Hesse, C. Huff, S. Kagle, J. Kalmbach, S. Kalter, K. Lindblom, W. McBride, R. McLaughlin, J. Neuleib, J. O'Brien, P. Ressler, R. Rutter, R. Saunders, G. Savage, M. Scharton, J. Shields, R. Strickland, J. Susina, A. Tarr, R. Tarr, T. Thompson, N. Tolson, R. Trites, J. Visor, D. Wallace, S. Ward, C. White, K. Zona.

The Department of English offers programs of graduate work leading to the Master of Arts, Master of Science, and the Doctor of Philosophy. A master's degree program is offered both in English and in Writing. University requirements for these degrees are listed elsewhere in this catalog. Departmental requirements are as follows.

### Admission Requirements

Admission requirements for the Master's programs in English are as follows. All applicants will have achieved a minimum 3.0 GPA as undergraduates; or, will have achieved more than a 3.0 during their last 45 hours; or, will have achieved a 3.0 as students-at-large in graduate courses. Applicants will submit the scores from the General Test of the GRE, transcripts from all colleges and universities attended, the application form, and any supporting materials. International students are required to have a score of at least 600 on the TOEFL. Applications are considered three times a year, in October, February, and May.

### Master's Degree in English

The Department offers a master's degree in English, with emphases by advising in English Studies, Creative Writing, Children's Literature, and Traditional Literature. This degree requires eleven courses; the thesis is optional. Comprehensive examinations are required.

### Master's Degree in Writing

The master's degree in writing offers sequences in the Teaching of Writing and in Professional Writing. Each sequence includes eighteen hours of required courses, nine hours of courses that are specific to the emphases, and three hours of electives. An internship or practicum, comprehensive examinations, and a thesis are required.

**Required core courses (15 hours):** ENG 401, 402, 341, and two literature courses.

9 hours selected from at least two of the following groups: Rhetorical Studies (3-6 hours): ENG 391, 392, 483, 495 (depending on topic).

Professional Writing (3-6 hours): ENG 347, 348, 349, 350, 351, 447, 449, 451.

Language (3-6 hours): ENG 310, 440.

Teaching (3-6 hours): ENG 343, 344, 345, 346, 395, 445, 452, 495.

3 hours of electives may be selected from courses not used to meet distribution requirements or from other appropriate courses.

Internship, portfolio, or Practicum (3 hours): ENG 396, 394, or 498.

Thesis (4 hours): ENG 499.

### Teaching of Writing Sequence

In this sequence, courses will be selected with the assistance of an adviser to provide an emphasis in community college teaching, Teaching English as a Second Language, or secondary teaching.

### Professional Writing Sequence

In this sequence, courses will be selected with the assistance of an adviser to provide an emphasis in technical writing, general writing, or creative writing.

### Doctor of Philosophy

The Doctor of Philosophy in English is designed for those who have a demonstrated career commitment to teaching, especially in two and four year colleges. Its purpose is to provide integrating theories for undergraduate instruction in writing, language, and literature. The program requires ENG 510, 540, 560, 590, and 591; English electives, 9-12 hours (6 in literature courses); Higher Education, 1-6 hours; cognate field, 12 hours; a qualifying examination; and a dissertation on the teaching of language, literature, or writing.

A full-time student should normally complete course work in two calendar years, a part-time student, in four years. A Doctor of Philosophy student, after completing work for a master's degree or its equivalent, must successfully complete at least two terms of full-time residency. A term may be a semester or a summer session of at least eight weeks. Full-time for residency is defined as at least 9 semester hours of course work during a semester or six semester hours during a summer session.

Admission to the program requires a master's degree and, ordinarily, prior teaching experience. For additional information write the Graduate Program Director, Department of English, Illinois State University.

### Courses

When content differs the courses may be repeated with the approval of the Department's Graduate Program Director and the Graduate School.

#### 308 LITERATURE AND THE RELATED ARTS

3 sem. hrs.

Study of formal, aesthetic, and cultural relationships among literature, art, and music with special emphasis upon literary understanding.

#### 310 HISTORY AND DEVELOPMENT OF THE ENGLISH LANGUAGE

3 sem. hrs.

Development of the English language from the Old English period to the present, with attention to operational structures of contemporary English.

#### 311 INTRODUCTION TO OLD ENGLISH LANGUAGE AND LITERATURE

3 sem. hrs.

The elements of Old English grammar, with selected readings in Old English literature.

#### 320 CHAUCER

3 sem. hrs.

Literary and linguistic study of the major works of Chaucer; text in Middle English.

#### 324 MILTON

3 sem. hrs.

Major poetry and prose of John Milton; special attention to Paradise Lost.

**325 ENGLISH DRAMA BEFORE 1642**  
3 sem. hrs.

English drama, excluding Shakespeare, from its beginning to the closing of the theaters; authors such as Marlowe, Jonson, Webster.

**327 RESTORATION AND EIGHTEENTH-CENTURY DRAMA**  
3 sem. hrs.

English drama from 1660 to 1800, including playwrights such as Dryden, Wycherley, Congreve, Goldsmith, Sheridan.

**328 MODERN BRITISH AND AMERICAN DRAMA**  
3 sem. hrs.

Twentieth century British and American drama and related criticisms; playwrights such as Shaw, O'Neill, Williams, Albee, Pinter, Beckett.

**329 SELECTED FIGURES IN BRITISH LITERATURE**  
3 sem. hrs.

Involves the study of important literary figures, genres, or movements. May be repeated if content different.

**332 SELECTED FIGURES IN AMERICAN LITERATURE**  
3 sem. hrs.

Study of important literary figures, genres, or movements. May be repeated if content different.

**336 THE AMERICAN NOVEL**  
3 sem. hrs.

Historical survey of major American novelists, including authors such as Twain, Hawthorne, Melville, Crane, Hemingway, Faulkner, and Barth.

**341 INTRODUCTION TO DESCRIPTIVE LINGUISTICS**  
3 sem. hrs.

Aims and methods of linguistic science. Nature and functions of language: phonology, morphology, syntax, dialectology. Relationship of language to culture.

**343 CROSS-CULTURAL ASPECTS IN TESOL**  
3 sem. hrs.

The relationship between language, culture, and cultural awareness in the learning and teaching of English as a Second Language.

**344 TESOL: THEORETICAL FOUNDATIONS**  
3 sem. hrs.

Linguistic theories, first and second language acquisition, cognitive, affective, and cultural factors in teaching English as a Second Language. Prerequisite: ENG 243 or 341.

**345 TESOL METHODS AND MATERIALS**  
3 sem. hrs.

Methodologies and techniques for teaching English as a Second Language; evaluation of materials for various levels and instructional goals. Prerequisite: ENG 344; includes clinical experience.

**346 ASSESSMENT AND TESTING IN ESL**  
3 sem. hrs.

Study of issues and methods of assessing oral and written proficiency in English as a Second Language. Prerequisite: ENG 341.

**347 ADVANCED CREATIVE WRITING**  
3 sem. hrs.

Workshop format for individual projects. Available as 347.01 Advanced Creative Writing: Poetry; 347.02 Advanced Creative Writing: Prose. May be repeated once if content different. Prerequisite: ENG 247 or graduate standing.

**348 PLAYWRITING**  
3 sem. hrs.

Playwriting techniques of selected masters with practical application of techniques in writing original plays. Also offered as THE 348.

**349 TECHNICAL WRITING II**  
3 sem. hrs.

Instruction and practice in editing, proposals, and analytical writing; attention given to style manuals, research-writing, and (as needed) publication. Prerequisite: ENG 249 or graduate standing. Also offered as IT 349.

**350 VISIBLE RHETORIC**  
3 sem. hrs.

Study of the visible elements of rhetoric and of publishing as an integrating activity in English. Computer assisted. Prerequisite: ENG 349 or consent of instructor.

**351 HYPERTEXT**  
3 sem. hrs.

Writing workshop emphasizing the creation of electronic, screen-bound documents. Includes study of interactive literature, on-line documentation, hypermedia, and electronic publishing. Prerequisites: ENG 246 or 249, or graduate status or consent of instructor. Computer assisted.

**352 SELECTED FIGURES IN WORLD LITERATURE**  
3 sem. hrs.

Involves the study of important literary figures, types, themes, or movements. May be repeated if content different.

**353 TECHNICAL EDITING**  
3 sem. hrs.

Theory and practice of editing and management of documentation in industry and other organizational settings. Computer assisted. Prerequisites: ENG 244 or COM 166 or graduate status or consent of instructor required.

**360 STUDIES IN WOMEN AND LITERATURE**  
3 sem. hrs.

Studies in literature by or about women, focusing on stereotyping of male/female experience and developing feminist aesthetic theories.

**365 MOVEMENTS AND PERIODS IN AFRICAN AMERICAN LITERATURE AND CULTURE**  
3 sem. hrs.

Historical survey of major movements and periods in African American literature and culture. May be repeated if content different.

**370 STUDIES IN THE HISTORY OF LITERATURE FOR YOUNG PEOPLE**  
3 sem. hrs.

Advanced critical, chronological examination of literature for children and adolescents from folklore origins to 1900. Prerequisite: ENG 170.

**372 STUDIES IN CONTEMPORARY LITERATURE FOR YOUNG PEOPLE**  
3 sem. hrs.

A problem-centered course, emphasizing trends and research related to recent literature for children and early adolescents. Prerequisite: ENG 170 or consent of instructor.

**373 VERSE FOR CHILDREN**  
3 sem. hrs.

Verse for children and early adolescents, including various categories, elements, and well-known poets in the field. Prerequisites: ENG 170 and 271, or 272 recommended.

**374 STORYTELLING**  
3 sem. hrs.

The art of storytelling based on knowledge of folklore heritage with experiences in oral transmission of literature in a variety of settings.

**375 STUDIES IN LITERATURE FOR ADOLESCENTS**  
3 sem. hrs.

Advanced critical examination of literature for young adults with emphasis on trends and research. May be repeated if content different.

**378 SHAKESPEARE ON STAGE**  
3 sem. hrs.

An intensive study of Shakespeare's plays in production. For the student with adequate familiarity with Shakespeare and his work. May be repeated once. Cross listed THE 378.

**381 STUDIES IN LITERARY GENRES**  
3 sem. hrs.

Systematic study of the theory and practice of a literary type or genre. May be repeated if content different.

**382 LITERARY CRITICISM**  
3 sem. hrs.

Historical survey of selected great texts in literary and critical theory from Plato to the present.

**384 INTRODUCTION TO CULTURAL THEORY**  
3 sem. hrs.

Introduction to the history and practice of interpretive cultural theory.

**386 THE EIGHTEENTH-CENTURY ENGLISH NOVEL**  
3 sem. hrs.

The English novel from its origins through the eighteenth-century, including writers such as Richardson, Fielding, Smollett, Sterne.

**387 THE NINETEENTH-CENTURY ENGLISH NOVEL**  
3 sem. hrs.

The English novel between 1800 and 1900, treating writers such as Austen, Thackeray, Dickens, Eliot, Hardy.

**388 THE TWENTIETH-CENTURY ENGLISH NOVEL**  
3 sem. hrs.

The English novel since 1900, treating writers such as Lawrence, Woolf, Joyce, Greene.

**390 RESEARCH STUDIES IN LANGUAGE ARTS**  
3 sem. hrs.

Critical study of current practice and research in the language arts and language development.

**391 SURVEY OF CLASSICAL RHETORIC**  
3 sem. hrs.

Rhetorical theories from ancient Greece to 1900, emphasizing Plato, Aristotle, Cicero, and Quintilian.

**392 MODERN THEORIES OF RHETORIC**  
3 sem. hrs.

Studies of the principles of rhetoric to serve as a basis for understanding contemporary rhetorical theories.

**394 TESOL PRACTICUM**  
1-6 sem. hrs.

Observation, case studies, tutoring, instructional assistance, and/or direct instruction in English as a Second Language. Prerequisite: ENG 345.

**395 PROBLEMS IN THE TEACHING OF ENGLISH**  
3 sem. hrs.

Examination of theory and practice in the teaching of language, literature, and composition at the secondary and community college level. Prerequisite: Experience in teaching (student teaching acceptable), or ENG 296, 297.

**396 THE WRITING SEMINAR**  
3 sem. hrs.

Concentration upon a major writing project and the formulation of an individual writing portfolio. Prerequisite: a minimum of 12 hours of core courses in the writing minor, or graduate standing.

**400 INDEPENDENT STUDY**  
1-4 sem. hrs.

Directed independent study in an area of English Studies. Prerequisite: Consent of instructor and graduate director.

**401 INTRODUCTION TO GRADUATE STUDY**  
3 sem. hrs.

Introduction to bibliography, methods of research, critical evaluation of scholarship, and recent developments in literary theory and criticism. Prerequisite: Graduate standing.

**402 INTRODUCTION TO THE COMPOSING PROCESS**  
3 sem. hrs.

Surveys basic theoretical and empirical research into the composing process.

**403 STUDIES IN POETIC FORMS AND CONVENTIONS**  
3 sem. hrs.

Close analysis of selected poems from medieval to modern emphasizing the development of forms, genres, and traditions.

**404 STUDIES IN NARRATIVE FORM AND THEORY**  
3 sem. hrs.

Analysis of the development of narrative form and theory.

**414 STUDIES IN SIXTEENTH-CENTURY BRITISH LITERATURE**  
3 sem. hrs.

Several important authors such as More, Sidney, and Spenser, or a particular literary movement or genre.

**415 STUDIES IN SEVENTEENTH-CENTURY BRITISH LITERATURE**  
3 sem. hrs.

Selected seventeenth-century writers such as Bacon, Donne, Jonson, Herbert, Bunyan, (excluding Milton), or a particular literary movement or genre.

**416 STUDIES IN EIGHTEENTH-CENTURY  
BRITISH LITERATURE**  
3 sem. hrs.

Important authors of the period, such as Dryden, Pope, Swift, Johnson, or a particular movement or genre.

**417 STUDIES IN ROMANTIC BRITISH  
LITERATURE**  
3 sem. hrs.

Selected movements, genres, or authors such as Blake, Wordsworth, Coleridge, Byron, Shelley, Keats.

**418 STUDIES IN VICTORIAN BRITISH  
LITERATURE**  
3 sem. hrs.

Authors in the period 1832-1901, such as Browning, Carlyle, Tennyson, Mill, Arnold.

**419 STUDIES IN CONTEMPORARY BRITISH  
LITERATURE**  
3 sem. hrs.

Several figures such as Yeats, Joyce, Thomas, Pinter, or a movement or genre.

**422 STUDIES IN SHAKESPEARE**  
3 sem. hrs.

Major critical problems in representative plays of Shakespeare.

**428 STUDIES IN DRAMA**  
3 sem. hrs.

Advanced study in selected works and topics from English, American, and Continental drama.

**431 STUDIES IN AMERICAN LITERATURE  
1500-1830**  
3 sem. hrs.

Figures, movements, or genres in the Puritan, Classical, and early Republican periods.

**432 STUDIES IN AMERICAN LITERATURE 1830-1870**  
3 sem. hrs.

Figures, movements, or genres in the American Romantic Period, treating authors such as Poe, Hawthorne, Emerson, Melville, Whitman.

**433 STUDIES IN AMERICAN LITERATURE  
1870-1920**  
3 sem. hrs.

Figures, movements, or genres in the American Realistic-Naturalistic Period, treating authors such as Dickinson, Clemens, James, Crane, Dreiser.

**434 STUDIES IN CONTEMPORARY  
AMERICAN LITERATURE**  
3 sem. hrs.

Figures, movements, or genres in American literature since 1920, treating authors such as Eliot, Fitzgerald, Hemingway, Steinbeck, Faulkner.

**440 STUDIES IN ENGLISH LINGUISTICS**  
3 sem. hrs.

Advanced study and research in various aspects of the English language. Prerequisite: ENG 341 or equivalent.

**445 TEACHING OF COMPOSITION IN  
THE COMMUNITY COLLEGE**  
3 sem. hrs.

Methods for applying rhetorical theory to the teaching of writing.

**447 CREATIVE WRITING SEMINAR**  
3 sem. hrs.

Practice in the writing of either poetry or fiction for graduate level or professional writers. Available as 447.01 Creative Writing Seminar: Poetry; 447.02 Creative Writing Seminar: Prose. Consent of instructor.

**449 RESEARCH IN TECHNICAL WRITING**  
3 sem. hrs.

Survey of bibliographical tools in technical writing and study of major trends in published technical writing research. Prerequisite: ENG 402.

**450 STUDIES IN ANCIENT LITERATURE**  
3 sem. hrs.

Selected readings from antiquity, mostly Biblical and classical, with consideration of Eastern literature.

**451 TOPICS IN TECHNICAL WRITING**  
3 sem. hrs.

Advanced study of selected topics in the theoretical and interdisciplinary underpinnings of technical writing. Prerequisite: ENG 349 or consent of instructor.

**452 THE TEACHING OF TECHNICAL WRITING**  
3 sem. hrs.

Inquiry into the issues, methods, and resources involved in teaching technical writing at the college level. Prerequisite: ENG 349 and either 449 or 451 recommended.

**454 STUDIES IN EUROPEAN ROMANTICISM**  
3 sem. hrs.

Figures, movements, or genres of the period 1770-1850 in Europe, including authors such as Goethe, Rousseau, Hugo, Heine.

**456 STUDIES IN MODERN WORLD  
LITERATURE**  
3 sem. hrs.

Figures, movements, or genres in World Literature from the mid-nineteenth century to the present, including authors such as Dostoevsky, Tolstoy, Camus, Mishima, Solzhenitsyn.

**460 FEMINIST LITERARY THEORIES**  
3 sem. hrs.

Advanced overview of interdisciplinary feminist paradigms, emphasizing English Studies and literature, theory, and social discourse.

**465 STUDIES IN AFRICAN AMERICAN  
LITERATURE AND CULTURE**  
3 sem. hrs.

Figures, genres, or critical-historical issues in African American literature and culture from the Middle Passage to the present. May be repeated if content different.

**467 TECHNOLOGY AND ENGLISH STUDIES**  
3 sem. hrs.

Critical examination of the impact of digital technology on a selected field within English Studies. Prerequisites: ENG 401 or consent of instructor.

**470 STUDIES IN CHILDREN'S LITERATURE**  
3 sem. hrs.

Topics in texts for children and adolescents: genres, authors, critical approaches, themes, or historical developments. May be repeated if content different.

**471 CRITICAL THEORIES IN CHILDREN'S LITERATURE**  
3 sem. hrs.

An introduction to the issues of critical theory in children's and adolescent literature. May be repeated if content different.

**482 STUDIES IN LITERARY CRITICISM**  
3 sem. hrs.

Problems or topics in literary criticism and theory.

**483 STUDIES IN RHETORIC AND STYLE**  
3 sem. hrs.

Historical survey of theories of language, rhetoric, and prose style. Prerequisite: ENG 241 or 310 or equivalent or consent of instructor.

**486 STUDIES IN THE ENGLISH NOVEL**  
3 sem. hrs.

Topics in the development of the English novel, with attention to particular techniques, figures, themes or movements.

**487 STUDIES IN THE AMERICAN NOVEL**  
3 sem. hrs.

Topics in the development of the American novel, with attention to particular techniques, figures, themes or movements.

**491 INTERNSHIP IN COLLEGE TEACHING OF ENGLISH**  
3 sem. hrs.

Supervised teaching at a cooperating community college or university. See C&I 491.

**492 RECENT RESEARCH IN THE ENGLISH LANGUAGE ARTS**  
3 sem. hrs.

Advanced study of significant research for elementary and junior high levels.

**495 TOPICS IN ENGLISH**  
1-3 sem. hrs.

Advanced study and research in an announced area of language or literature.

**497 RESEARCH METHODS IN COMPOSITION STUDIES**  
3 sem. hrs.

Current research issues and methods in composition studies, with emphasis on experimental, formalistic, and naturalistic designs. Prerequisite: ENG 402 or consent of instructor.

**498 PROFESSIONAL PRACTICE: INTERNSHIP IN ENGLISH**  
1-12 sem. hrs.

Supervised field experience in English with local, state, national, and international businesses, agencies, institutions (including colleges and universities), and organizations. Prerequisite: Consent of instructor.

**499 MASTER'S THESIS**  
1-6 sem. hrs.

**500 INDEPENDENT STUDY**  
1-4 sem. hrs.

Directed independent study in an area of English Studies. Prerequisite: Consent of instructor and graduate director.

**510 PROFESSIONAL SEMINAR IN THE TEACHING OF ENGLISH**  
4 sem. hrs.

Research and study of the nature of college teaching, including the community college, with emphasis upon the exploration of new methods. Prerequisites: one English methods course, teaching experience.

**540 SEMINAR IN LANGUAGE**  
4 sem. hrs.

Research in one or more areas of linguistics, from descriptive and historical studies to theory of language or practical application. Prerequisite: ENG 341, or equivalent.

**560 SEMINAR IN SELECTED AREAS IN LITERATURE**  
4 sem. hrs.

Research in selected areas of literary study with attention to curricular and teaching theories. Prerequisite: Previous teaching experience.

**590 SEMINAR IN COMPOSITION**  
4 sem. hrs.

Research in the history and philosophy of rhetoric with emphasis upon exploration of new techniques for the teaching of composition to students in community or four-year colleges. Prerequisite: ENG 402 or equivalent.

**591 PRACTICUM (INTERNSHIP) IN COLLEGE TEACHING**  
4 sem. hrs.

Teaching of lower-division English courses with emphasis upon new techniques; under faculty direction, at Illinois State University or off campus; in conjunction with tutorial meetings. Prerequisite: completion of doctoral course work.

**599 RESEARCH AND DISSERTATION**  
1-15 sem. hrs.

Research involving the gathering of materials and data and the writing of a dissertation.

## FOREIGN LANGUAGES (FOR)

**Chairperson:** Barbara Kurtz. Office: Stevenson Hall 114.

**Graduate Faculty:** J. Alstrum, A. Berry, W. Bohn, M. Davies, L. Heggie, A. Kapanga, B. Kurtz, J. L. Laurenti, S. McClennen, M. Mir, K. Nance, J. Pancrazio, M. Pao, J. Reid, J. Rosenthal, E. Segelcke, R. Thomas, M. Trouille, D. Urey, J. Van Der Laan, A. Weeks, K. Widdison.

The Department of Foreign Languages offers work leading to the Master of Arts in Foreign Languages. The Master's degree program is a flexible one, permitting an emphasis in either teaching or non-teaching areas. Students may combine study in two foreign languages, or may concentrate on one language. Subject to departmental approval it is also possible to take up to three graduate courses in international business, T.E.S.O.L., international affairs, or other related areas of study. Within the major language area students may emphasize cultural studies, language/linguistics, literature or pedagogy. Instruction in courses dealing with the literature and culture of the major field (French, German, Spanish) is generally carried on in the language of specialization. Details about program design and course availability are available from the Department. All individual programs require approval of the student's graduate adviser and the Chairperson.

**Admission Requirements**

Applicants must have a minimum GPA of 2.8 for the last 60 hours of undergraduate work and must submit two letters of recommendation. They will customarily have an undergraduate major or equivalent in the area they want to pursue. Graduate School admissions requirements are listed elsewhere in this catalog. The Department of Foreign Languages reserves the right to examine applicants in order to ensure that they are able to understand, speak, and write the language of study with appropriate proficiency. In certain cases additional course work may be required to correct deficiencies.

**Academic Requirements**

All candidates for the Master of Arts degree in Foreign Languages must take designated courses in at least three of the following areas: culture, linguistics, literature and pedagogy, must complete a minimum of 36 semester hours of course work with an average 3.0 GPA, and must pass a comprehensive examination. Students may choose to write a Master's thesis in completing the above requirements. Details about academic requirements may be obtained from the Department of Foreign Languages.

**Study-Abroad Option**

Students may count up to nine hours of approved graduate study abroad toward degree requirements. Financial assistance for the semester abroad is usually available on a competitive basis, subject to availability of funds. The study-abroad opportunity should be discussed with the Graduate Adviser during the student's first semester in the program.

**Basic Competency in Instructional Technology**

M.A. students have the option to participate in workshops on instructional technology under faculty supervision, earning a statement of basic competency issued by the department. Participation does not affect other program requirements.

**General Courses****300 RESEARCH IN FOREIGN LANGUAGES****1-3 sem. hrs.**

Supervised work in a foreign language, in comparative language studies or in educational materials for the foreign language laboratory. Assignments will depend on the preparation and interest of the student. Prerequisite: Consent of department chairperson.

**319 PRINCIPLES IN FOREIGN LANGUAGE LEARNING****3 sem. hrs.**

Processes of second language acquisition. Emphasis on the use of contrastive and error analysis to identify and predict common student errors in the target language. Prerequisites: French or Spanish 309 or 310 or German 309 or 313 or concurrent registration. C or better in C&I 216 or PSY 215 or concurrent registration. Includes Clinical Experiences: 25 hrs. Type 1, 5, 9, 10. Admission to Teacher Education.

**320 FOREIGN LANGUAGE TEACHING IN THE SECONDARY SCHOOL****2 sem. hrs.**

Methods of teaching foreign languages in the secondary school. Special emphasis is given to materials and activities leading to mastery. Prerequisite: FOR 319. Includes Clinical Experience: 15 hours, Type 1, 5, 9, 10. Admission to Teacher Education.

**321 MEDIA MATERIALS AND THEIR USES IN THE TEACHING OF FOREIGN LANGUAGES****2 sem. hrs.**

Supplementing the basic methodology of Foreign Language teaching with media materials and the techniques for their use in the language classroom. Prerequisites: COM 240 recommended.

**350 FOREIGN LANGUAGE TESTING AND ASSESSMENT****3 sem. hrs.**

Exploration of development and uses of language tests according to current views of foreign language teaching. Prerequisites: FR, GER, or SP 213 or equivalent foreign language proficiency; FOR 319 or 475 recommended.

**355 ELEMENTARY SCHOOL FOREIGN LANGUAGE METHODS****3 sem. hrs.**

Development of skills for teaching foreign languages in the elementary school in the context of various program models. Prerequisites: FR, GER, or SPA 213 or equivalent language proficiency.

**405 INTRODUCTION TO CULTURAL STUDIES****3 sem. hrs.**

An introduction to contemporary theories of culture including ethnography, Marxism, feminism, semiotics. Emphasis on application to France, Germany, Spain and Latin America.

**475 FOREIGN LANGUAGE TEACHING METHODOLOGIES AT THE COLLEGE LEVEL****3 sem. hrs.**

Survey and applications of methods for teaching, listening, reading, writing, speaking, and culture to college-level foreign language students. Prerequisites: Graduate standing and foreign language proficiency.

**480 ADVANCED TOPICS IN FOREIGN LANGUAGE INSTRUCTION****3 sem. hrs.**

Exploration of methods and resources in foreign language teaching. May be repeated if content different. Prerequisite: FOR 320 or consent of department chairperson.

**485 SELECTED STUDIES IN LINGUISTICS****3 sem. hrs.**

Intensive study of a linguistic problem, work, or technique. Content may vary according to interest and needs of students. May be repeated with different content.

**490 LITERARY RESEARCH IN FOREIGN LANGUAGES****3 sem. hrs.**

Graduate introduction to scholarly research methods and theory of studying literature in its original language. Prerequisite: graduate standing in foreign languages.

**491 INTERNSHIP IN COLLEGE TEACHING IN THE FOREIGN LANGUAGES****1-3 sem. hrs.**

Credit for this course is given in Curriculum and Instruction. (See C&I 491.)

**499 MASTER'S THESIS****1-6 sem. hrs.**

## French Courses

### 305 HISTOIRE DE LA CIVILISATION FRANCAISE 3 sem. hrs.

Survey of French culture and civilization from ancient times to the present day. Prerequisites: Two courses beyond French 116.

### 314 STUDIES IN CONTEMPORARY FRENCH AND FRANCOPHONE CULTURE 3 sem. hrs.

Selected themes in contemporary French and Francophone culture and society with an emphasis on group work, class discussion, and oral presentations. Prerequisites: Two courses beyond French 116. May be repeated if content different.

### 325 SELECTED TOPICS IN FRANCOPHONE LITERATURE AND CULTURE 3 sem. hrs.

Readings of representative literary works in their cultural contexts written in French by authors residing outside France. May be repeated if content is different. Prerequisites: Two courses beyond French 116.

### 326 SELECTED TOPICS IN FRENCH MEDIEVAL AND RENAISSANCE LITERATURE AND CULTURE 3 sem. hrs.

Representative authors, genres, and movements before 1700 studied in their political, philosophical, and socio-cultural contexts. Prerequisites: Two courses beyond French 116. May be repeated if content different.

### 327 SELECTED TOPICS IN 17TH AND 18TH CENTURY FRENCH LITERATURE AND CULTURE 3 sem. hrs.

Readings of representative 17th and/or 18th century literary texts in their cultural (philosophical, political, social, economic and/or historical) contexts. Prerequisites: Two courses beyond French 116. May be repeated if content different.

### 328 SELECTED TOPICS IN 19TH AND 20TH CENTURY FRENCH LITERATURE AND CULTURE 3 sem. hrs.

Readings of representative 19th and/or 20th century literary texts in their cultural (philosophical, political, social, economic, or historical) contexts. Prerequisites: Two courses beyond French 116. May be repeated if content different.

### 335 COMPARATIVE FRENCH/ENGLISH GRAMMAR AND STYLE 3 sem. hrs.

Intensive, advanced, comparative grammar and composition, including analysis of stylistic differences between French and English. Prerequisites: FR 235 or permission of instructor.

### 340 INTRODUCTION TO APPLIED FRENCH LINGUISTICS 3 sem. hrs.

Principles and methods of objective language analysis applied to relevant issues in the French language and the teaching of French. Prerequisite: FR 235.

### 385 SELECTED TOPICS IN FRENCH LITERATURE 3 sem. hrs.

Intensive study of a genre, group of authors or a single major writer in French literature. This study varies each semester. Prerequisites: Two courses beyond French 116. May be repeated if content is different.

### 405 SEMINAR ON CONTEMPORARY FRENCH CIVILIZATION 3 sem. hrs.

Intensive study of one or more aspects of contemporary French civilization. Prerequisites: FOR 305 or consent of the instructor. May be repeated if content is different.

### 420 SELECTED TOPICS IN FRENCH LITERATURE AND CULTURE 3 sem. hrs.

Intensive study of French literature and culture organized around a particular period, genre, movement or theme, including both theory and practice. Content will differ.

### 440 SEMINAR ON FRENCH POETRY 3 sem. hrs.

Intensive study of French poetry organized around a particular period, movement or theme, including both theory and practice. May be repeated if content is different.

### 450 SEMINAR ON FRENCH PROSE 3 sem. hrs.

Intensive study of French prose organized around a particular period, movement or theme, including both theory and practice. May be repeated if content is different.

### 460 SEMINAR ON FRENCH THEATER 3 sem. hrs.

Intensive study of a particular movement or period of French theater, including both theory and practice. May be repeated if content is different.

## German Courses

### 302 GOETHE 3 sem. hrs.

Reading and discussion of a number of major works. Prerequisite: Two courses beyond German 116.

### 310 ADVANCED STUDY OF THE GERMAN LANGUAGE 3 sem. hrs.

The study of linguistic concepts and their advanced application through the integration of practical work to improve language skills with appropriate theoretical topics in linguistics. Prerequisites: GER 213 or consent of department chair. Not for credit if had GER 309.

### 311 THE GERMAN NOVELLE 3 sem. hrs.

Study of selected Novellen from Goethe and the Romantics through Poetic Realism and Naturalism to the twentieth century. Prerequisite: Two courses beyond German 116 required.

### 318 GOETHE'S FAUST 3 sem. hrs.

A critical study of Parts I and II of Faust. Lectures, readings, and reports. Prerequisites: Two courses in German beyond 116.

**332 GERMAN LYRIC POETRY****3 sem. hrs.**

Reading and interpretation of German lyric poetry from 800 A.D. to the present. Prerequisites: Two courses beyond German 116.

**385 SELECTED TOPICS IN GERMAN LITERATURE OR CULTURE****3 sem. hrs.**

Intensive study of a theme, genre, including film, group of authors, or a single major writer in German literature. Prerequisite: At least one course on German literature. May be repeated if content is different.

**424 STUDIES IN THE GERMAN LANGUAGE****3 sem. hrs.**

Advanced study in selected areas of German language or linguistics. May be repeated if content is different.

**434 STUDIES IN THE GERMAN NOVEL****3 sem. hrs.**

Advanced study in selected works, authors and topics from the German novel. May be repeated if content is different.

**444 STUDIES IN THE GERMAN DRAMA****3 sem. hrs.**

Advanced study in selected works and topics from the German drama. May be repeated if content is different.

**454 STUDIES IN GERMAN CULTURE AND CIVILIZATION****3 sem. hrs.**

Advanced study of German-language literary and non-literary texts illuminating various areas of German thought, culture, and social background. May be repeated if content is different.

**Spanish Courses****305 CURRENT TOPICS IN HISPANIC CIVILIZATION AND CULTURE****3 sem. hrs.**

Recent trends, issues and changes in the Spanish-speaking world. Varying topics and pedagogical strategies for teaching culture. May be repeated if content is different. Prerequisite: SPA 217 or 218 or 243 or 244.

**310 SPANISH SYNTAX****3 sem. hrs.**

Advanced study of contrasts in Spanish and English grammar with a focus on explaining the differences. Prerequisite: SPA 235 or consent of instructor.

**331 SPANISH-AMERICAN LITERATURE I****3 sem. hrs.**

From the Colonial period through realism. Prerequisite: SPA 221 or 222 or 242 or 253 or 254 or 255.

**336 SELECTED TOPICS IN SPANISH-AMERICAN LITERATURE****3 sem. hrs.**

Variable topics providing in-depth study of major authors, works, genres, themes or movements. May be repeated with different content. Prerequisite: SPA 221 or 222 or 242.

**337 SELECTED TOPICS IN MODERN PENINSULAR SPANISH LITERATURE****3 sem. hrs.**

Major authors, genres or movements from Spanish literature of the 18th, 19th and 20th centuries. May be repeated with different content. Prerequisite: SPA 221 or 222 or 242 or 253 or 254 or 255.

**338 SELECTED TOPICS IN MEDIEVAL SPANISH LITERATURE AND CULTURE****3 sem. hrs.**

Major authors, genres, or periods from Spanish literature of the Middle Ages, studied in cultural context. May be repeated with different content. Prerequisite: SPA 221 or 222 or 242 or 253 or 254 or 255.

**339 SELECTED TOPICS IN SPANISH GOLDEN AGE LITERATURE AND CULTURE****3 sem. hrs.**

Major authors, works, genres, or movements from the Spanish Golden Age (1469-1700) in their historical/cultural context. May be repeated with different content. Prerequisite: SPA 221 or 222 or 242 or 253 or 254 or 255.

**385 SELECTED TOPICS IN SPANISH LITERATURE****3 sem. hrs.**

Intensive study of a genre, movement, author, or work. This study varies each semester. May be repeated with different content. Prerequisite: SPA 221 or 222 or 242 or 253 or 254 or 255.

**411 SPANISH-AMERICAN NOVEL****3 sem. hrs.**

The Spanish-American novel of the nineteenth and twentieth centuries with emphasis on the most characteristic authors of each period.

**415 STUDIES IN SEVENTEENTH-CENTURY SPANISH LITERATURE****3 sem. hrs.**

Advanced study of representative authors and genres, with emphasis on the theater and the novel. May be repeated with different content.

**418 STUDIES IN EIGHTEENTH- AND NINETEENTH-CENTURY SPANISH LITERATURE****3 sem. hrs.**

In-depth study of major authors, works, genres, themes or movements from Spanish literature of the 18th and 19th centuries. Either seminar or survey format. May be repeated with different content.

**421 HISTORY OF THE SPANISH LANGUAGE****3 sem. hrs.**

The historical development of the Spanish language with particular attention to its phonology and morphology.

**425 TOPICS IN HISPANIC LINGUISTICS****3 sem. hrs.**

Systematic examination of selected facets of the Spanish language. May be repeated with different content.

**431 STUDIES IN EARLY SPANISH-AMERICAN LITERATURE****3 sem. hrs.**

In-depth study of major themes of entire literature first introduced in chronicles, travel books and poetry between 16th and 18th centuries. May be repeated with different content.

**434 STUDIES IN MODERN SPANISH-AMERICAN LITERATURE****3 sem. hrs.**

In-depth study or comparative analysis of figures, works, or genres of the 19th or 20th centuries. Seminar or survey format. May be repeated with different content.



**470 DON QUIXOTE**  
3 sem. hrs.

Reading of Don Quixote with special attention to the problems of interpretation and literary criticism.

**484 STUDIES IN TWENTIETH-CENTURY SPANISH LITERATURE**  
3 sem. hrs.

A study of the twentieth century novel, essay, poetry, or drama. May be repeated with different content.

**GEOGRAPHY-GEOLOGY (GEO)**

**Chairperson:** David Malone. Office: Felmley Hall 206.

**Graduate Program Director:** James Carter.

**Graduate Faculty:** S. Boateng, J. Carter, R. Corbett, J. Day, R. Ghose, D. Hammel, D. Malone, R. Nelson, S. O'Lear, M. Sublett, W. Walters.

**Master of Science in Geohydrology**

The M.S. in Geohydrology is the sole graduate program offered by the department and focuses specifically on groundwater as a dynamic resource and as a component of environmental science. The program prepares graduates for careers in the areas of groundwater resources, the environmental protection of those resources, and environmental problems of a hydrogeologic nature.

Unconditional admission to the program requires students to have completed a baccalaureate degree in geology or earth science. Students with degrees from other natural sciences and engineering may apply, and course deficiencies will be determined from transcript evaluation. A plan of study will be developed to allow students to overcome any deficiencies. A minimum of two courses each of chemistry, physics and calculus is required for unconditional admission. A minimum "B" average in prior geology course work is also required. Scores from the general aptitude (only) Graduate Record Exam and three letters of recommendation must be submitted. Admission standards of the Graduate School must be met.

Master's degree candidates may choose either of two options.

**Option 1:** Thirty-two hours of credit including the completion and oral defense of a written master's thesis.

**Option 2:** Thirty-two hours of credit including a comprehensive examination.

Each option requires the completion of a group of core courses (26-27 hours): GEO 360, 362, 364, 435, 439, 444, 452, 456, and 488. Option 1 requires 4-6 credits of thesis research GEO 499. Students who are admitted into the program with undergraduate credit in GEO 360, 362, or 364 will be required to take additional graduate electives.

**Courses****300 CARTOGRAPHY**  
3 sem. hrs.

Theory and techniques regarding graphic representation of statistical data, including compilation, drafting, and reproduction of various types of thematic maps. Field trip and drafting supplies required. Prerequisite: GEO 145 recommended.

**303 GEOGRAPHIC INFORMATION SYSTEMS**  
3 sem. hrs.

Fundamental principles of geographic information systems; emphasis on raster and vector based systems and their applications to spatial analysis. Prerequisites: GEO 204 or consent of instructor.

**304 GEOGRAPHIC INFORMATION SYSTEMS APPLICATIONS**  
3 sem. hrs.

Advanced applications in geographic information systems (GIS) with an emphasis on problem solving, advanced GIS analysis techniques and a survey of vector- and raster-based GIS software and databases. Prerequisites: GEO 303 required. MAT 120 recommended.

**305 REMOTE SENSING I**  
3 sem. hrs.

Basic principles of image interpretation with photogrammetry. Techniques and measurements in remote sensing. Field trip required.

**306 REGIONAL AND AREA STUDIES**  
1-9 sem. hrs.

Intensive on-site study of particular lands, environments, cultures, and people. Field work required. Prerequisite: Consent of instructor.

**308 QUANTITATIVE METHODS IN GEOGRAPHY**  
3 sem. hrs.

Use and interpretation of basic statistical techniques in geographical problems. Prerequisite: GEO 204.

**310 FIELD GEOGRAPHY**  
3 sem. hrs.

Techniques for the systematic acquisition and interpretation of geographic field data. Includes an introduction to Orienteering. Field work required. Prerequisite: 9 hrs. of geography required.

**336 URBAN GEOGRAPHY**  
3 sem. hrs.

Internal morphology, external relationships, and other spatial aspects of cities.

**338 LIFE AND LANDSCAPE**  
3 sem. hrs.

Cultural landscapes and folklife in North America and Western Europe. Field work required. Individualized instruction. Prerequisite: GEO 135 or consent of instructor required.

**345 PROBLEMS IN CONSERVATION AND OUTDOOR RECREATION**  
3 sem. hrs.

Investigation of specific problems in conservation and resource use including outdoor recreational resources. Prerequisite: GEO 205.

**351 CARTOGRAPHIC PROCESSES**  
3 sem. hrs.

Techniques of design, production and reproduction of maps, including multi-separations, scribing, darkroom techniques and materials, and color proofing. Drafting supplies and A or B in GEO 300 required. Materials charge optional.

**360 GROUNDWATER GEOLOGY**  
3 sem. hrs.

Groundwater occurrence and movement, aquifer evaluation, field and lab measurements, contamination and other applications. Field trips required. Prerequisite: GEO 203; MAT 146.

**362 ENGINEERING GEOLOGY****3 sem. hrs.**

Engineering applications of geology, construction problems of geologic origin and their engineering solutions. Field trips required. Prerequisites: GEO 203; MAT 146; and PHY 108 or consent of instructor.

**364 EXPLORATION GEOPHYSICS****3 sem. hrs.**

Principles of exploration geophysics and the techniques that are used to study subsurface environments. Subjects reviewed include: stress and strain, information theory, seismic, gravity, magnetics, electrical resistivity, electromagnetic conductivity, ground penetrating RADAR, and borehole logging. Prerequisites: GEO 203, MAT 146, and PHY 108.

**370 URBAN AND REGIONAL PLANNING****3 sem. hrs.**

Introduction to the planning process and the major elements used in plan implementation such as zoning regulations, subdivision regulations, and the official map. Field research may be required. Prerequisites: GEO 204 or consent of instructor.

**380 GEOMORPHOLOGY****3 sem. hrs.**

Origin, classification, description, and interpretation of landforms. Field trips required. Prerequisite: GEO 100, 102, or 105.

**382 GLACIAL AND QUATERNARY GEOLOGY****3 sem. hrs.**

Development of glaciers, glacial movements, deposits, and landforms as background for discussion of present landscapes. Field trips required. Prerequisite: GEO 100, 102, or 105.

**385 INVERTEBRATE PALEONTOLOGY****4 sem. hrs.**

Examination and analysis of major fossil invertebrate phyla; emphasis on groups with paleoecologic and stratigraphic significance. Lecture and lab. Field work required. Prerequisites: GEO 203 required; BSC 196 recommended.

**395 FIELD GEOLOGY****6 sem. hrs.**

Application of geologic principles to field mapping and interpretation in the Black Hills and Central Rocky Mountains. Offered in the summer only. Prerequisites: GEO 280, 285, 290, and 295.

**435 INTRODUCTION TO GROUNDWATER MODELING****3 sem. hrs.**

Advanced study of the mathematics of fluid flow and the formulation of groundwater systems by computer modeling. Methods of computer modeling of pumping tests and groundwater flow systems with an emphasis on the AQTESOLV, AQUIFEM, and MODFLOW programs. Prerequisites: GEO 360 and MAT 145 or equivalents.

**439 GEOCHEMISTRY OF METEORIC WATERS****3 sem. hrs.**

Processes controlling and composition of meteoric waters. Methods of analysis, techniques of interpretation, and quality standards for uses. Prerequisites: GEO 360, CHE 140, 141 or consent of instructor.

**444 APPLIED GROUNDWATER MODELING****3 sem. hrs.**

Applications of groundwater computer models to simulate flow, optimize development strategies, and remediate pollution problems in actual aquifers systems. Students assemble available information, develop and run computer simulations, and prepare professional reports. Prerequisite: GEO 435.

**452 CONTAMINANT TRANSPORT****3 sem. hrs.**

Examination of waste disposal formats, geologic constraints, geologic conditions, and leachate containment, adsorption, diffusion, dilution and breakthrough. Field trips required. Prerequisite: GEO 360 or equivalent.

**456 PROBLEMS IN ENVIRONMENTAL GEOLOGY****3 sem. hrs.**

Examination of geological considerations and interpretations required in conducting environmental investigations mandated by law. Field trip and field work required. Prerequisite: Consent of instructor.

**488 GRADUATE TOPICS IN GEOHYDROLOGY****2-3 sem. hrs.**

Specific topics having geohydrologic consequences. Topics include Water Resource and Environmental Law (2 sem. hrs.), Aquifer Systems in Clastic and Carbonate Rocks (3 sem. hrs.) and Analytical Methods in Groundwater Geochemistry (2 sem. hrs.).

**499 MASTER'S THESIS****1-6 sem. hrs.****HISTORY (HIS)**

**Chairperson:** John Freed. Office: Schroeder Hall 334.

**Graduate Program Director:** Lee Beier. Office: Schroeder Hall 339.

**Graduate Faculty:** A. Adedze, A. Beier, L. Beier, D. Chesebrough, R. Clemens, L. Clemmons, D. Davis, F. Drake, J. Freed, J. Grabill, S. Harmon, P. Holsinger, N. Holt, A. Lessoff, D. MacDonald, S. McDonald, L. McBride, P. Olsen, L. Perez, S. Siddali, L. M. Simms, Jr., R. Soderlund, M. Tavakoli-Targhi, S. Westbury, W. Wyman.

**Master's Degree in History****Admission Requirements**

The department requires for admission to the master's program an undergraduate degree in history or a related field; 3.0 GPA in the last 60 hours of undergraduate work and any graduate credits earned; a sample of written work of at least five pages; two letters of recommendation; and a letter of application (optimum length 250 words), describing the candidate's background, interests, and objectives. Admissions applications and transcripts should be sent to the Office of Admissions. Writing samples, letters of recommendation, and letters of application should be sent directly to the Graduate Program Director, Department of History.

**Degree Requirements**

The master's program in History offers two degrees and two options.

A student may choose either of two degrees.

**Master of Arts:** This degree is awarded to a student who has completed one of the options described below, a minimum of two years of study in foreign language at the university level (equivalent of completion of FOR 116) or a satisfactory score on a University administered foreign language test, and a minimum of 32 semester hours of graduate-level credit in humanities and social sciences beyond the language requirement.

**Master of Science:** This degree is awarded to a student who has completed one of the options described below.

A student may choose one of two options.

**Option 1: Thirty-two hours of credit including a master's thesis.** The thesis may be based on research in primary sources or may be an analysis of a selected problem from historical literature. The thirty-two hours must include HIS 496, 497, and 499 (thesis credit: four to six semester hours), plus sixteen additional hours at the 400 level. Students choosing this option are strongly advised to take no more than one 300-level course.

**Option 2: Thirty-nine hours of credit and two revised seminar papers.** The thirty-nine hours must include HIS 496 and 497, plus twenty additional semester hours at the 400 level. The papers must be submitted to the Graduate Program Director for evaluation by the middle of the student's last semester.

Students must declare the choice of option in a Plan of Study, which must be submitted to the Graduate Program Director in the student's first semester.

#### Course Requirements

All master's candidates are required to take HIS 496 and 497 in their first two semesters. The courses need not be taken in sequence, but they are co-requisites or prerequisites of all other 400-level work in History.

HIS 405 is required of all students holding graduate assistantships in History. This is normally taken in the first semester of the assistantship.

#### History Courses by Field of Concentration

Concentrations are designed to encourage students to focus on certain areas and periods. Concentrations are not degree requirements and do not appear on the transcript or diploma.

**U.S. to 1865:** HIS 306, 309, 311, 315, 320, 321, 322, 323, 329, 330, 411, 412, 414, 424. A student concentrating in U.S. history should take from four to eight hours in non-U.S. history. These hours may be included in the hours needed for a second field of concentration.

**U.S. since 1865:** HIS 306, 309, 321, 322, 324, 325, 327, 329, 330, 414, 417, 421, 424, 428. A student concentrating in U.S. history should take from four to eight hours in non-U.S. history. These hours may be included in the hours needed for a second field of concentration.

**Modern Europe:** HIS 308, 341, 342, 345, 355, 356, 357, 362, 366, 402, 441, 453, 461, 468. A student concentrating in European history should take from four to eight hours in U.S. history. These hours may be included in the hours needed for a second field of concentration.

**Non-Western World:** HIS 307, 351, 373, 375, 378, 477. Suggested courses in other departments: POS 340, 345, 349.

**Archives, Public History, Historical Archaeology:** HIS 392, 394, 395, 432, 498. Suggested courses in other departments: ANT 374, 381, 388.

**History Education:** HIS 392, 405, 498. Suggested courses in other departments: C&I 401, 415, 421.

A student should declare the area, or areas, of concentration in writing to the Graduate Program Director as soon as possible. Students are encouraged to examine course offerings in other departments such as Geography-Geology, Political Science, Economics, Sociology-Anthropology, Philosophy, English, Foreign Languages, and Curriculum and Instruction for 300-level and 400-level courses which supplement History offerings. Such courses may be used in the History Master's degree program providing the student receives written permission from the History Graduate Advisor prior to enrollment and the courses are included on the approved Plan of Study before enrollment. A few examples of these courses are listed above.

#### Courses

##### 306 REGIONAL AND AREA STUDIES 1-9 sem. hrs.

Intensive study of particular lands, environments, cultures, and peoples. Usually given cooperatively with other departments. Prerequisite: Any 200-level HIS or consent of instructor. Materials charge optional.

##### 307 SELECTED TOPICS IN NON-WESTERN HISTORY 3 sem. hrs.

The study of Non-Western history through a topical approach. Topics will vary from semester to semester. May be taken for multiple credit. Prerequisites: HIS 103 and 200 or consent of instructor. May be repeated if topic differs for maximum of 6 semester hours.

##### 308 SELECTED TOPICS IN EUROPEAN HISTORY 3 sem. hrs.

The study of European history through a topical approach. Topics will vary from semester to semester. May be repeated for credit if content differs.

##### 309 SELECTED TOPICS IN UNITED STATES HISTORY 3 sem. hrs.

This course focuses on a specific topic or era of United States history, emphasizing conflicting interpretations and use of primary sources. Prerequisites: HIS 135, 136; HIS 200 or consent of instructor. May be repeated if topic differs for maximum of 6 semester hours.

##### 311 AGE OF THE AMERICAN REVOLUTION 3 sem. hrs.

The emergence of the United States as an independent nation from 1763 to the Constitutional Convention in 1787.

##### 315 SLAVERY AND THE OLD SOUTH 3 sem. hrs.

Historiography of slavery and the pre-Civil War South. Prerequisite: HIS 135 or 257 or consent of instructor.

**320 LINCOLN: THE MAN AND HIS TIMES****3 sem. hrs.**

Attention directed especially toward the work of Lincoln in Illinois, his leadership during the Civil War, and his relationship with people and events of his time. Prerequisite: Any 200-level Amer HIS or consent of instructor.

**321 GREAT FIGURES OF AMERICAN HISTORY****3 sem. hrs.**

Personalities selected from American History with emphasis on the contributions and lasting influence of significant individuals. Prerequisite: Any 200-level Amer HIS or consent of instructor.

**322 AMERICAN URBAN HISTORY****3 sem. hrs.**

Survey of the history of the American city from 1820 to the present. Prerequisite: Two 200-level HIS courses or consent of instructor.

**323 AMERICAN CULTURAL AND INTELLECTUAL HISTORY, 1620-1860****3 sem. hrs.**

American progress in the fine arts, philosophy, literature, and science from Puritan times to 1860. Prerequisite: HIS 135 or consent of instructor.

**324 AMERICAN CULTURAL AND INTELLECTUAL HISTORY, 1860-PRESENT****3 sem. hrs.**

The impact of naturalism, industrialization, secularization, and urbanization upon American culture since 1860. Prerequisite: HIS 136 or consent of instructor.

**325 PROBLEMS IN TWENTIETH-CENTURY UNITED STATES CONSTITUTIONAL HISTORY****3 sem. hrs.**

An examination of major problems in American constitutional history since the Progressive Era: civil rights, freedom of speech and religion, federal-state relations. Prerequisite: Any 200-level American history course or consent of instructor.

**327 AMERICAN LABOR HISTORY****3 sem. hrs.**

The Industrial Revolution's impact upon workers, with emphasis on the responses through unions and politics and on the role of government. Prerequisite: HIS 136 or 137 or consent of instructor.

**329 RURAL LIFE AND SOCIETY IN THE U.S., 1800-PRESENT****3 sem. hrs.**

Examines American rural society from 1800 to the present, with emphasis upon the impact of change upon farming communities. Prerequisite: 100- or 200-level U.S. HIS course or consent of instructor.

**330 THE FAMILY IN HISTORY****3 sem. hrs.**

History of the family in Europe and America, viewing the changes from idealist, economic determinist, family systems, and psychoanalytic perspectives. Prerequisite: 100- or 200-level HIS course or consent of instructor.

**341 EUROPEAN INTELLECTUAL HISTORY TO 1600****3 sem. hrs.**

The study of the ideas of the ancient world, Middle Ages, Renaissance, Reformation, examined in a social, political, and economic context. Prerequisite: HIS 101 or 102 or consent of instructor.

**342 EUROPEAN INTELLECTUAL HISTORY SINCE 1600****3 sem. hrs.**

A study of the ideas of the scientific revolution, enlightenment, nineteenth century and twentieth century examined in a social, political, and economic context. Prerequisite: HIS 101 or 102 or consent of instructor.

**345 FRENCH REVOLUTION AND NAPOLEON, 1789-1815****3 sem. hrs.**

Society, culture, and government under the monarchy; destruction of the old order; rise and fall of Napoleonic France. Prerequisite: Any 200-level Eur HIS or consent of instructor.

**351 ANCIENT NEAR EAST****3 sem. hrs.**

Study of the civilizations of Mesopotamia and Egypt from the neolithic period to 500 B.C. Prerequisite: a 200-level or 300-level non-U.S. HIS course or consent of instructor.

**355 POPULAR CULTURE IN EARLY MODERN EUROPE****3 sem. hrs.**

History of the culture of the common population of Europe 1400-1800: Pre-conditions, formation, principal elements, decline of the culture.

**356 THE ENLIGHTENMENT****3 sem. hrs.**

Intellectual and social history of the western world during the eighteenth century. Prerequisite: HIS 102 or consent of instructor.

**357 LATE MEDIEVAL AND EARLY MODERN BRITAIN****3 sem. hrs.**

Selected topics in British history, c. 1350-c. 1750. Prerequisite: HIS 231 or consent of instructor. Not for credit if had HIS 226, 227, 359, or 360.

**362 MODERN BRITAIN, 1815 TO THE PRESENT****3 sem. hrs.**

A general survey of British history in the nineteenth and twentieth centuries. Prerequisite: HIS 232 or consent of instructor.

**366 SOVIET RUSSIA****3 sem. hrs.**

Study of communist revolution, culture, and dictatorship and its transformation into a contemporary European democracy.

**373 HISTORY OF MODERN CHINA****3 sem. hrs.**

Concentrates on the Western and Chinese collision since the 1800's and the responses of traditional, national, and contemporary China to modernization.

**375 HISTORY OF MODERN JAPAN**  
3 sem. hrs.

Concentrates on Japan's modernization, goals of Meiji leaders, contradictory tendencies of pre-war Japan, and contemporary Japan.

**378 ISLAM**  
3 sem. hrs.

In-depth study of Islam, focusing on ideas rather than events. Topics include law, mysticism, art and resurgent Islam.

**390 HISTORY-SOCIAL SCIENCE  
TEACHING METHODOLOGY II**  
3 sem. hrs.

History-Social Science materials, use of instructional models, and clinical experiences. Must be completed prior to student teaching. Prerequisites: C or better in HIS 290 and C&I 216 or concurrent registration and admission to Teacher Education. Includes clinical experiences.

**392 INSTRUCTIONAL TECHNOLOGY FOR  
HISTORIANS**  
3 sem. hrs.

Use of computers for retrieval and analysis of historical evidence and for presentation of information and in instruction. Prerequisite: 12 hours HIS or consent of instructor.

**394 ORAL HISTORY**  
3 sem. hrs.

The comprehensive study and use of oral history as a research tool, and its application as a teaching technique. Prerequisite: HIS 135 or 136 or consent of instructor.

**395 ARCHIVES AND MANUSCRIPTS**  
3 sem. hrs.

Nature, acquisition, processing, and use of archives and manuscripts. Emphasis on theory and principles with practical exercises. Prerequisite: Any 200-level HIS or consent of instructor.

**402 SEMINAR IN EUROPEAN HISTORY**  
4 sem. hrs.

Prerequisite: Graduate status.

**403 TOPICS IN EARLY MODERN  
EUROPEAN HISTORY**  
4 sem. hrs.

Advanced study of selected topics and geographical regions of Europe from 1450-1789. May be repeated if topic different.

**405 PRACTICUM IN HISTORY TEACHING**  
4 sem. hrs.

Pedagogic instruction in the theory and practice of teaching. Includes participation in instructing in the classroom. Prerequisite: Consent of history graduate advisor.

**407 MENTORSHIP IN THE TEACHING OF  
HISTORY AND THE SOCIAL SCIENCES**  
1-3 sem. hrs.

Practicing classroom teachers design mentoring strategies for pre-service teachers seeking undergraduate and graduate degrees. Prerequisite: Consent of instructor.

**411 SEMINAR: EIGHTEENTH-CENTURY  
AMERICA**  
4 sem. hrs.

Prerequisite: Graduate status.

**412 SEMINAR: THE AGE OF JACKSON**  
4 sem. hrs.

Prerequisite: Graduate status.

**414 SEMINAR: CIVIL WAR AND  
RECONSTRUCTION**  
4 sem. hrs.

Prerequisite: Graduate status.

**417 SEMINAR: TWENTIETH-CENTURY  
AMERICA**  
4 sem. hrs.

Prerequisite: Graduate status. May be repeated if topic different.

**421 SEMINAR ON AMERICAN IMMIGRATION  
HISTORY**  
4 sem. hrs.

Examination of important immigration issues, classic historical studies, and major research approaches, with emphasis on work in primary materials. Prerequisites: HIS 273 or consent of instructor. Graduate status.

**424 SEMINAR: AMERICAN CULTURAL  
AND INTELLECTUAL HISTORY**  
4 sem. hrs.

Prerequisite: Graduate status.

**428 SEMINAR: AMERICAN DIPLOMACY**  
4 sem. hrs.

Prerequisite: Graduate status.

**432 RESEARCH PROBLEMS IN LOCAL HISTORY**  
4 sem. hrs.

Prerequisite: Graduate status.

**441 SEMINAR: EUROPEAN  
INTELLECTUAL HISTORY**  
4 sem. hrs.

Prerequisite: Graduate status.

**453 SEMINAR: THE REFORMATION**  
4 sem. hrs.

Prerequisite: Graduate status.

**461 SEMINAR: EARLY MODERN BRITAIN**  
4 sem. hrs.

Prerequisite: Graduate status.

**468 SEMINAR: MODERN RUSSIA**  
4 sem. hrs.

Prerequisite: Graduate status.

**477 SEMINAR: THE CONTEMPORARY  
MIDDLE EAST**  
4 sem. hrs.

Prerequisite: Graduate status.

**478 TOPICS IN GLOBAL HISTORY**  
4 sem. hrs.

Advanced study of selected topics in the history of Africa, Asia, indigenous peoples, Latin America, and the Middle East in global context. May be repeated if topic different.

**496 PHILOSOPHY OF HISTORY  
AND HISTORIOGRAPHY**  
4 sem. hrs.

Examination of the philosophical bases for historical study with review of the development of historical knowledge and the historical profession. Prerequisite: Graduate status.

**497 RESEARCH IN HISTORY**

4 sem. hrs.

Identifying, collecting, verifying, and organizing historical data and writing history. Preparation for writing theses, dissertations, and other research. Prerequisite: Graduate status.

**498 PROFESSIONAL PRACTICE:  
PUBLIC/APPLIED HISTORY**

1-12 sem. hrs.

Supervised practical experience in a professional capacity in archives, business, government, historic preservation, historical archeology, historical editing, historical society or museum work. Prerequisites: 10 hours of graduate course work including HIS 497 and one seminar; completion of application procedures. Graduate status.

**499 MASTER'S THESIS**

1-6 sem. hrs.

**599 DOCTORAL DISSERTATION**

Variable credit for students completing the Doctor of Arts degree in History.

## MATHEMATICS (MAT)

**Chairperson:** Lotus Hershberger. Office: Stevenson Hall 313.

**Graduate Program Directors:** Carol Thornton, Michael Plantholt.

**Graduate Faculty:** K. Berk, J. Cottrill, R. Day, R. Eggleton, S. El-Zanati, S. Friedberg, J. Gamage, L. Hershberger, G. Jones, C. Langrall, C. Lubinski, M. Marsalli, S. Meier, E. Mooney, K. Ostaszewski, J. Parr, M. Plantholt, N. Presmeg, B. Rich, L. Sennott, T. Shilgalis, L. Spence, C. Thornton, S. Tipnis, C. Vanden Eynden.

**Programs Offered**

The Department of Mathematics offers varied programs leading to the Master of Arts in Mathematics, Master of Science in Mathematics, and Doctor of Philosophy in Mathematics Education degrees. At the master's level, concentrations are available for persons interested in secondary mathematics education, pure mathematics, statistics, computational mathematics, and applied mathematics. A Sequence in Elementary and Middle School Mathematics Education is available for teachers at those levels. The Ph.D. program is for persons seeking advanced preparation as teacher educators and mathematics education researchers. Graduate assistantships and instructorships are available.

**Master's Degree Programs**

The student must meet the general university requirements listed elsewhere in this catalog for either the Master of Arts or Master of Science degree. In addition, the student must complete either Option I in Mathematics, Option II in Mathematics, or the Sequence in Elementary and Middle School Mathematics Education described below.

**Admission Requirements**

Admission to Options I and II in Mathematics normally requires an undergraduate major in mathematics or secondary mathematics education. Admission to the Sequence in Elementary and Middle School Mathematics Education requires an appropriate background in mathematics content and methodology. Applicants lacking the required background for these programs

may be admitted with deficiencies at the discretion of the department's graduate committee. Applicants whose undergraduate grade point average for the last sixty hours is less than 2.80 (but at least 2.60) may be admitted probationally and must make a grade point average of 3.0 during their first term (summer or semester) of study.

**Option I in Mathematics**

Thirty-nine hours of courses, with at least 30 in mathematics, including MAT 336, 337 and 347, are required. Eighteen hours must be at the 400 level, including at least 12 in mathematics. Three mathematics courses numbered 407 or above are required. All electives are subject to approval by the department's graduate committee.

**Option II in Mathematics**

Thirty-two hours of courses, with at least 24 in mathematics, including MAT 336, 337 and 347, are required. Fifteen hours must be at the 400 level, including at least 10 in mathematics. Three mathematics courses numbered 407 or above are required. All electives are subject to approval by the department's graduate committee. A written comprehensive examination over two areas, one of which must be algebra, analysis or statistics, is required.

**Areas of Concentration**

The graduate adviser will assist students in selecting electives in the following areas of concentration:

**Secondary mathematics education:** 401, 403, 421, 422

**Doctoral study in mathematics:** 407, 447, 448

**Statistics:** 350, 351, 356, 450, 453, 455, 456, 458

**Computational mathematics:** 356, 361, 363, 370

**Applied mathematics:** 340, 341, 345, 356, 361, 362, 363, 370, 378

Other courses not yet listed in this catalog are also available. Contact the graduate adviser.

**Sequence in Elementary and Middle School Mathematics Education**

Persons who are teaching or who plan to teach at the elementary or middle school level may elect the Sequence in Elementary and Middle School Mathematics Education. Each student who elects this sequence must complete MAT 304, 305, 401, 402 and 403. Thirty-two hours of courses, with at least 24 in mathematics, are required. Fifteen hours must be at the 400 level, including at least 10 in mathematics. Either a written comprehensive examination or an approved thesis with no more than six hours of credit in MAT 499 is required. All electives are subject to approval by the department's graduate committee. Students who are considering entering the Mathematics Education Ph.D. program at Illinois State University are advised to take MAT 145 and 146 and, as part of their master's program, the following courses: MAT 304, 305, 307, 309 or 330, 312, 315, 320, 326, and 422. Please see the Ph.D. advisor for more information.

**Doctor of Philosophy in Mathematics Education**

The Department of Mathematics offers work leading to the Ph.D. in Mathematics Education. This program is designed to equip individuals with the skills necessary to train prospective and in-service teachers of mathematics, to develop and evaluate mathematics curricula, and to conduct, direct, and evaluate

research related to the teaching and learning of mathematics. The program places special emphasis on the mathematics curriculum in grades K-12.

Two options are available depending on the grade-level interest of the student: K-9 and K-12. The Graduate Record Examination General Test is required prior to admission. Course requirements for the degree further assume mathematics coursework basic to the undergraduate major in mathematics for K-9 option individuals and the equivalent of a master's in mathematics with breadth of other individuals.

In addition to mathematics -- including at least 6 hours of graduate mathematics course work at Illinois State University -- course requirements involve 30 semester hours in mathematics education, 3 hours for a professional project, 12 hours in research methods, 6 hours of electives in areas such as mathematics, technology, curriculum, educational psychology, evaluation, supervision, human development, learning theory or measurement; and a minimum of 15 hours of dissertation credit. Students in the program must demonstrate competence in teaching prospective or practicing mathematics teachers. Some of these requirements may be satisfied by work completed prior to acceptance into the program. The student must also meet the other University requirements for Ph.D. programs listed elsewhere in this catalog. A full-time student should normally complete the minimum course work for the program in 3 to 4 years past the bachelor's degree. Students must meet the Graduate School's residency requirement for a Doctor of Philosophy degree.

In addition to the Graduate School requirements given elsewhere in this catalog, it is recommended that applicants have prior teaching experience at the elementary or secondary level and completion of specified course work or degrees in mathematics depending on the option elected. For additional information write the Graduate Program Director, Department of Mathematics, Illinois State University.

## Courses

### 302 TEACHING MATHEMATICS IN GRADES 5-8 3 sem. hrs.

Problems, viewpoints, and trends in teaching middle school or junior high mathematics. Implications of research related to organization, content and techniques for teaching mathematics in grades 5-8. Prerequisite: C or better in MAT 202 and 204. May include clinical experience.

### 304 TOPICS IN GEOMETRY AND MEASUREMENT FOR K-8 TEACHERS 3 sem. hrs.

Geometry and measurement topics related to the elementary and junior high school curricula. Prerequisites: C or better in MAT 202. Department approved graphing calculator required.

### 305 TOPICS IN ALGEBRA AND COMBINATORICS FOR K-8 TEACHERS 3 sem. hrs.

Algebra and counting topics related to elementary and junior high school curricula. Prerequisite: C or better in MAT 202. Department approved graphing calculator required.

### 307 MODERN ALGEBRA FOR K-8 TEACHERS 3 sem. hrs.

Algebraic concepts and structures relevant to grades K-8. Structure of familiar number systems compared to and contrasted with other mathematical systems. Prerequisites: C or better in MAT 207. Formerly MAT 205.

### 309 PROBLEM SOLVING IN GRADES K-8 3 sem. hrs.

Formulation, solution, and extension of problems from various areas of mathematics. Emphasis on inductive, deductive, and inferential reasoning and on solution processes and strategies. Prerequisite: C or better in MAT 204 and 207. Department approved graphing calculator required.

### 312 PROBABILITY AND STATISTICS FOR K-8 TEACHERS 3 sem. hrs.

Descriptive statistics, lines of best fit, basic concepts of probability, simulation, probability distributions, expectation and counting techniques. Prerequisites: C or better in MAT 204 and 207 or consent of instructor. Department approved graphing calculator required. May include Clinical Experience.

### 315 MATHEMATICAL MODELING FOR MIDDLE SCHOOL TEACHERS 3 sem. hrs.

Mathematical modeling and problem solving with applications involving networks and communication systems, finance, locating positions on the surface of the earth and biology. Prerequisites: C or better in MAT 309 and 312. Department approved graphing calculator required.

### 320 HISTORY OF MATHEMATICS TO 1600 2 sem. hrs.

Emphasis on Greek geometry, and growth of algebra and algebraic notation from early Mesopotamia through Renaissance. Prerequisite: MAT 145 recommended.

### 321 HISTORY OF MATHEMATICS, 1600 TO PRESENT 2 sem. hrs.

Development of modern mathematics (analysis, algebra, geometry) and the people in the forefront, beginning with Descartes. Emphasis on 19th century. Prerequisite: MAT 147.

### 323 MATHEMATICS FOR THE SECONDARY SCHOOL 3 sem. hrs.

The selection, placement, and teaching of secondary mathematics topics. Analysis of recent trends and practices. Prerequisites: C or better in MAT 211; C or better in MAT 236, or concurrent registration; C&I 216 and at least 2.2 GPA. Includes clinical experiences, 35 hrs. Type 1-5, 9; admission to Teacher Education. Department approved graphing calculator required.

### 326 COMPUTER-EXTENDED MATHEMATICS FOR SECONDARY SCHOOLS 3 sem. hrs.

Integrating computers and calculators into the secondary mathematics curriculum. Prerequisites: MAT 175. Department approved graphing calculator required.

### 330 NUMBER THEORY 3 sem. hrs.

Divisibility, primes, unique factorization, numerical functions, congruences, Diophantine equations, other topics. Prerequisite: MAT 175.

### 336 ADVANCED ABSTRACT ALGEBRA 3 sem. hrs.

Introduction to groups, including permutation, symmetry and matrix groups, homomorphisms, normality, quotient groups, applications. Prerequisite: MAT 175 required; MAT 236 recommended.

**337 ADVANCED LINEAR ALGEBRA****4 sem. hrs.**

Abstract vector spaces, linear transformations and matrices, inner product spaces, eigenvalues and eigenvectors, diagonalization. Applications to geometry, the physical and social sciences. Prerequisite: MAT 175.

**340 DIFFERENTIAL EQUATIONS I****3 sem. hrs.**

First order differential equations, linear differential equations, systems of differential equations, applications of differential equations, numerical solutions. Prerequisites: C or better in MAT 147; MAT 175 or concurrent registration; and C, FORTRAN, Pascal, PL/I or approved programming language.

**341 DIFFERENTIAL EQUATIONS II****3 sem. hrs.**

Power series solutions, Laplace transform, theory of first-order equations, Fourier series, boundary-value problems, introduction to partial differential equations (Laplace, heat, and wave equations). Prerequisites: MAT 175 and 340.

**345 ADVANCED CALCULUS****4 sem. hrs.**

Calculus of functions of several variables; Taylor's series of several variables, maxima and minima, Lagrange multipliers, inverse and implicit function theorems, multiple integration, line integrals, Green's, Stokes' and the divergence theorems. Prerequisite: MAT 147 and 175.

**347 ADVANCED REAL ANALYSIS****4 sem. hrs.**

The real number system, topology of metric spaces, sequences, continuous functions, uniform convergence, differentiation, Taylor's Theorem, Riemann integration, the fundamental theorem of calculus, infinite series, power series, applications. Prerequisite: MAT 336 or 337 or consent of instructor.

**350 APPLIED PROBABILITY MODELS****4 sem. hrs.**

Sample spaces, discrete and continuous random variables, probability functions, density functions, moment generating functions, important families of distributions, multivariate distributions. Applications to risk management. Prerequisite: MAT 147.

**351 STATISTICS AND DATA ANALYSIS****4 sem. hrs.**

Chi-square, F, t, and bivariate normal distributions; Central Limit Theorem; goodness-of-fit tests; correlation and regression; analysis of variance; randomized block designs; nonparametric methods. Prerequisites: MAT 147 and 350.

**353 THE ANALYSIS OF TIME SERIES****4 sem. hrs.**

Theory and application of regression and time series methods with reference to business and economic time series. Topics include regression, exponential smoothing, and Box-Jenkins methods. A computer statistical package will be used. Prerequisites: ECO 331, or MAT 350, or consent of instructor. Also offered as ECO 353.

**356 STATISTICAL COMPUTING****4 sem. hrs.**

Application of the SAS, SPSS programs to real data, emphasizing regression, and analysis of variance. Prerequisites: Two statistics courses, some facility with matrices.

**361 TOPICS IN DISCRETE MATHEMATICS****2-4 sem. hrs.**

Study of selected areas of discrete mathematics. Consult the Class Registration Directory for the topics to be offered and the hours of credit to be earned during any given semester. Each topic may be taken once. Prerequisite: MAT 175 and approved programming language.

**362 LINEAR PROGRAMMING****2-4 sem. hrs.**

Modeling and solution of problems using the simplex method. Duality, sensitivity, integer programming. Transportation problems. Prerequisites: C or better in MAT 175 and C, FORTRAN, Pascal, PL/I or approved programming language.

**363 GRAPH THEORY****2-4 sem. hrs.**

Introduction to graph theory, connectivity, matching, coloring, network flows with applications to communication reliability, scheduling, and traffic flow problems. Prerequisites: MAT 175 and FORTRAN, Pascal, PL/I or approved programming language.

**370 NUMERICAL ANALYSIS****4 sem. hrs.**

Interpolation and approximation, error analysis, differentiation, integration, techniques for solving differential equations, root finding. Applications and computational techniques. Prerequisites: C or better MAT 175 and C, FORTRAN, Pascal, PL/I or approved programming language.

**378 MATHEMATICAL MODELING****4 sem. hrs.**

Applications of mathematics modeling to fields including biology, economics, engineering, political science, psychology, and sociology. Project required. Prerequisites: MAT 175 and 350 required; MAT 340 recommended.

**380 INTRODUCTION TO LIFE CONTINGENCIES****4 sem. hrs.**

Survival distributions, life tables; the mathematics of life insurance, life annuities, net premiums, and net premium reserves. Prerequisites: MAT 280 and 350.

**383 CREDIBILITY THEORY AND LOSS DISTRIBUTION****3 sem. hrs.**

Bayesian estimation and credibility theory, application of statistical theory to the development and estimation of loss distributions. Prerequisites: C or better in MAT 351.

**401 CURRENT RESEARCH IN SCHOOL MATHEMATICS****3 sem. hrs.**

Analysis of research in mathematics education and its implications for instruction in school programs. Prerequisite: EAF 410 or 509 or consent of instructor.

**402 INSTRUCTIONAL STRATEGIES FOR ELEMENTARY AND JUNIOR HIGH MATHEMATICS****3 sem. hrs.**

Selecting, utilizing and evaluating instructional organization, laboratory materials and pedagogical techniques for elementary school mathematics programs. Prerequisites: MAT 401 and 403 recommended.



**403 THEORIES OF MATHEMATICS LEARNING****3 sem. hrs.**

Overview of theories of how students learn mathematics and the implications of these theories for classroom teaching and research.

**404 ISSUES AND TRENDS IN TEACHING  
ELEMENTARY AND MIDDLE SCHOOL  
MATHEMATICS****3 sem. hrs.**

Analysis of the role of the teacher, student, and content in the learning environment. Prerequisites: Two of the following: MAT 401, 402, or 403.

**406 ADVANCED TOPICS IN ASSESSMENT IN  
ELEMENTARY AND JUNIOR HIGH  
MATHEMATICS****2-3 sem. hrs.**

Analytical approaches and instructional procedures for assessment and evaluation in elementary and junior high school mathematics.

**407 ABSTRACT ALGEBRA****4 sem. hrs.**

Group theory including the Sylow theorems and other advanced topics; ring theory. Prerequisite: MAT 336 or consent of instructor.

**410 TOPICS IN NUMBER THEORY****3-4 sem. hrs.**

Topics vary, but are often chosen from Diophantine equations, continued fractions, Diophantine approximations. Additional topics and applications will be covered in the 4-hour version. Prerequisite: MAT 330 or consent of instructor.

**421 TOPICS IN ALGEBRA FOR TEACHERS****3 sem. hrs.**

Problems in teaching of secondary school algebra. Investigation of reports, research, and recent trends in this area. Prerequisite: MAT 175 or 236 and teaching experience.

**422 TOPICS IN GEOMETRY FOR TEACHERS****3 sem. hrs.**

Problems in teaching secondary school geometry. Investigation of reports, research, and recent trends. Objectives and content of secondary school geometry. Prerequisite: MAT 211.

**447 REAL ANALYSIS I****4 sem. hrs.**

Inadequacy of Riemann integration, theories of measure and integration, function spaces, Hilbert spaces, linear functionals, orthogonal functions and Fourier series. Prerequisites: MAT 337 and 347.

**448 REAL ANALYSIS II****4 sem. hrs.**

Additional topics on measures, linear operators on function spaces, spectral theories of compact and self-adjoint operators, Banach spaces, duality. Applications in probability and analysis. Prerequisite: MAT 447.

**450 FINITE SAMPLING****3-4 sem. hrs.**

Application and theory of sampling, mathematical sampling; simple, stratified, and cluster. Evaluation of plans with respect to precision and cost. Additional topics and applications will be covered in the 4-hour version. Prerequisite: MAT 350.

**453 REGRESSION ANALYSIS****3-4 sem. hrs.**

Linear regression models and the F-test. Model Fitting: analysis of residuals, transformations, and the selection of variables. The analysis of variance via regression. Additional topics and applications will be covered in the 4-hour version. Prerequisites: MAT 175 and 351.

**455 APPLIED STOCHASTIC PROCESSES****3-4 sem. hrs.**

Processes important in numerous applications. Finite and countable state Markov chains, the Poisson process, birth-death processes, elementary queueing theory, renewal processes, and others. Prerequisite: MAT 350.

**456 MULTIVARIATE STATISTICS****3-4 sem. hrs.**

Review of regression and analysis of variance. The multivariate normal distribution, discriminant analysis, multivariate analysis of variance, factor analysis. Computational procedures. Prerequisites: MAT 175, 351.

**458 THE DESIGN OF EXPERIMENTS****3-4 sem. hrs.**

Linear models and the logic of planned experimentation, choice of statistical technique, and analysis of data. Additional topics and applications will be covered in the 4-hour version. Prerequisite: MAT 351.

**499 MASTER'S THESIS****1-6 sem. hrs.****580 MATHEMATICAL THINKING AND  
LEARNING****3 sem. hrs.**

Analysis of theories in mathematical thinking and learning as they relate to instruction and research in mathematics education. Prerequisite: MAT 403.

**581 SEMINAR IN RESEARCH AND DEVELOPMENT  
IN MATHEMATICS EDUCATION****3 sem. hrs.**

Analysis of research in strategies or methods for teaching mathematics and in the learning of mathematics. Analysis of curriculum projects as they relate to these research findings. Analysis of current research and consideration of the implications of this research for new curricular innovations, and for classroom teaching. Prerequisite: Admission to Ph.D. program in Mathematics Education.

**582 HISTORY OF MATHEMATICS EDUCATION  
CURRICULUM****3 sem. hrs.**

Study of the development of mathematics education curriculum since colonial times. Readings of major books, recommendations, and papers. Prerequisite: Admission to Ph.D. program in Mathematics Education.

**583 PROFESSIONAL PROJECTS IN  
MATHEMATICS EDUCATION****3 sem. hrs.**

Designed to provide intensive work under direct supervision of faculty on a project in mathematics education. Prerequisite: Approval of Ph.D. director.

**584 MATHEMATICS CURRICULUM K-12****3 sem. hrs.**

Study of trends in the mathematics curriculum K-12, research on curriculum in mathematics, and major curriculum projects in mathematics. Prerequisite: MAT 582.

**585 TOPICS IN MATHEMATICS  
EDUCATION SEMINAR**  
1-3 sem. hrs.

Intensive inquiry into topics in mathematics education through research, discussion, and reports. May be repeated with approval of Ph.D. director. Prerequisite: Admission to Ph.D. program in mathematics education.

**586 MATHEMATICS TEACHING AND  
TEACHER EDUCATION**  
3 sem. hrs.

Analysis of the research in mathematics teaching and teacher education. Prerequisite: MAT 584.

**587 ISSUES AND TRENDS IN SECONDARY  
SCHOOL MATHEMATICS**  
3 sem. hrs.

Analysis and evaluation of current and experimental curricular and instructional materials in light of historical and current professional recommendations. Prerequisites: MAT 582 or consent of instructor.

**599 DISSERTATION**  
Variable credit

Research, library search, curriculum study, and writing related to Doctor of Philosophy dissertation requirement. Prerequisite: Approval of Ph.D. director.

## MICROBIOLOGY

(See Biological Sciences)

## PHILOSOPHY (PHI)

**Chairperson:** James Swindler.

**Department Office:** 412 Stevenson Hall.

**Graduate Faculty:** D. Anderson, A. Bailey, H. Deutsch, M. Gorr, C. Horvath, K. Machina, M. Siderits, T. Simon, S. L. Stillwell, J. Swindler.

**Note:** Graduate degrees are not granted in the Department of Philosophy, but course work is available as supplemental study or as electives.

### Courses

**305 TOPICS IN TWENTIETH CENTURY  
PHILOSOPHY**  
3 sem. hrs.

Major philosophical movements of the 10th century, focusing on significant figures. Prerequisite: PHI 281 and 112, or MAT/PHI 210. May be repeated for credit if topic different.

**310 TOPICS IN PHILOSOPHY OF SCIENCE**  
3 sem. hrs.

Examination of topics in philosophy of natural, behavioral, and/or social sciences, e.g., scientific explanation, evidence, methodology, progress, universality, normativity, testability. Prerequisite: Consent of instructor.

**315 TOPICS IN PHILOSOPHY, SCIENCE,  
AND THE MIND**  
3 sem. hrs.

Exploration of a philosophical topic on the scientific study of the mind (e.g., mind-body problem, artificial intelligence, philosophical psychology, neuroscience). Prerequisite: Consent of instructor.

**330 TOPICS IN MORAL THEORY**  
3 sem. hrs.

Examination of fundamental issues in moral philosophy, e.g., possibility of moral knowledge, justification of value judgments, nature of moral responsibility. Prerequisites: PHI 199 and 232.

**339 TOPICS IN THE PHILOSOPHY OF ART**  
3 sem. hrs.

Philosophical examination of expression, aesthetic experience, representation, nature of art, possibility of objective evaluation as applied to various art forms. Prerequisites: Two PHI courses, including at least one 200-level or higher. Graduate students may enroll without previous PHI courses. May be repeated.

**340 TOPICS IN LEGAL AND POLITICAL  
PHILOSOPHY**  
3 sem. hrs.

Intensive examination of selected topics in social, political and legal philosophy, e.g., liberty, justice, rights, equality, community, democracy, political obligation. Prerequisites: PHI 199; PHI 232 or 240. May be repeated for credit if topic different.

**350 TOPICS IN THE HISTORY  
OF PHILOSOPHY**  
3 sem. hrs.

Intensive examination of an important figure, movement, or theme in the history of philosophy, e.g., Plato, British Empiricism, freewill/determinism. Prerequisite: PHI 281.

**363 TOPICS IN METAPHYSICS AND  
EPISTEMOLOGY**  
3 sem. hrs.

Detailed examination of selected issues in contemporary metaphysics and epistemology. Prerequisites: PHI 281 and 112 or MAT/PHI 210.

**390 INDEPENDENT STUDY**  
1-3 sem. hrs.

Prerequisites: One PHI course and consent of instructor and dept. chairperson.

## PHYSICS (PHY)

**Chairperson:** Richard Martin, Jr. Office: 311 Moulton Hall.

**Graduate Faculty:** B. Clark, R. Grobe, S. Hassani, D. Holland, K. Karim, R. Martin, H. Matsuoka, S. Ren, G. Rutherford, Q. Su.

**Note:** Graduate degrees are not granted in the Department of Physics, but course work is available as supplemental study or as electives.

### Courses

**301 TEACHING HIGH SCHOOL PHYSICS**  
3-4 sem. hrs.

Modern methods and problems confronting teachers of high school physics. Includes observation and clinical experiences for 4 hrs. credit. Prerequisites: 18 hrs. in PHY, C&I 216 with grade of C or better, or concurrent registration. Admission to Teacher Education, includes clinical experiences, 35 hours, Type 1-6.

**310 READINGS FOR TEACHING HIGH SCHOOL  
PHYSICS**  
3 sem. hrs.

Essential background experiences for teaching high school physics that center around developing scientific literacy in students. Prerequisites: 10 hrs. in PHY. Not for credit if had PHY 301.

**311 TEACHING HIGH SCHOOL PHYSICS****3 sem. hrs.**

Strategies, curricula, and resource for the teaching of high school physics. Application of knowledge of physics, adolescent psychology, and pedagogical theory to secondary teaching. Prerequisites: PHY 310; 18 hrs. in PHY; C or better in C&I 216, or concurrent registration. Not for credit if had PHY 301.

**312 PHYSICS TEACHING FROM THE HISTORICAL PERSPECTIVE****3 sem. hrs.**

Qualitative overview of the development of classical scientific thought relating to physical phenomena. Prerequisite: 20 hours in PHY; admission to Teacher Education required.

**320 MECHANICS II****3 sem. hrs.**

Coordinate transformations, nonlinear oscillations, Lagrangian and Hamiltonian mechanics, rigid body motion relativity. Prerequisites: PHY 220 and MAT 340. ACS 165 recommended.

**355 SOLID STATE PHYSICS****3 sem. hrs.**

Crystal structures, X-ray and electron diffraction, lattice vibrations and thermal properties, binding energy, conduction of electrons, band theory, dielectric and magnetic properties, defects, metals, semiconductors, and insulators. Prerequisite: PHY 325.

**375 ELECTRONICS FOR SCIENTISTS****3 sem. hrs.**

DC and AC circuit analysis with an introduction to the electrical properties of semiconductors; theoretical and experimental analysis of semiconductor diode, transistor, and operational amplifier circuits. Prerequisite: PHY 109 or 111. Lecture and lab.

**384 QUANTUM MECHANICS II****3 sem. hrs.**

Operator formalism, Dirac bra and ket notation, angular momentum, perturbation theory, applications to laser physics. Prerequisites: PHY 284 and MAT 340.

**387 METHODS OF MATHEMATICAL PHYSICS****3 sem. hrs.**

Finite- and infinite-dimensional vector spaces, matrices and determinants, Fourier analysis, complex analysis, differential equations, emphasis on physical applications. Prerequisites: PHY 240 and MAT 340 or concurrent registration.

**388 ADVANCED COMPUTATIONAL PHYSICS****3 sem. hrs.**

Application of computational methods to contemporary topics in physics, including nonlinear classical and quantum dynamics or physical problems that involve many degrees of freedom. Prerequisites: PHY 220, 240, 284, and 288, or consent of instructor.

**POLITICAL SCIENCE (POS)**

**Chairperson:** Jamal Nassar. Office: Schroeder Hall 306.

**Graduate Program Director:** Lane Crothers.

**Graduate Faculty:** R. Bradley, J. Brooks, L. Crothers, T. Eimmermann, G. Gordon, R. Hunt, J. Josephson, G. Kiser, G. Klass, J. Leatherman, N. Lind, A. Monroe, J. Nassar, C. Parodi, R. Payne, M. Steger, C. Veney, T. Wang.

**Master's Degree in Political Science**

The Department offers work leading to the following degrees: Master of Science (M.S.) or Master of Arts (M.A.). Master's degree students choose one of three options: (1) 32 hours with thesis, (2) 32 hours with comprehensive examinations, or (3) 39 hour option requiring POS 495 as a capstone experience; the 39 hour option is open only to students in the Applied Community Development Sequence. All degree students are required to take 15 credit hours in department 400-level seminars, including POS 497 or POS 461. The following three sequences are offered:

- Applied Community Development
- Public Service
- Global Politics and Cultures

**Applied Community and Development**

This sequence is designed for returned Peace Corps Volunteers, students with experiences similar to Peace Corps, and students preparing to enter Peace Corps. Students wishing to complete this sequence should apply and be approved by the Graduate Program Director before beginning course work. Students must complete the following courses: POS 471, 472, 473, 497 or, in some cases, 461, and 498.12 (6 hours fulfilled by a paid internship or Peace Corps service), ECO 490.04 (4 hours), and GEO 370. Students must also fulfill the usual requirements for the degree, including thesis or the taking of a comprehensive examination, or completion of the 39 hour option with POS 495 as the capstone experience.

**Public Service**

This sequence is designed for students interested in employment in the public sector, particularly at the state and local level. Students must complete POS 421 and 431, plus 12 hours selected from among the following courses: POS 313, 318, 323, 329, 330, 331, 332, 333, 334, 335, 411, 412, 422, 432, 433, and 498. Students must fulfill the usual requirements for the degree, including thesis or taking of a comprehensive examination.

**Global Politics and Cultures**

This sequence is designed for students interested in the increasingly inter-connected politics of the modern world. Students must complete POS 417, either POS 461 or POS 497, POS 451 and POS 441. They must take a range of courses across the sub-disciplines of political science. Students must also complete the regular requirements for a degree, including either the thesis or comprehensive exam option.

**Admission Requirements**

To be admitted to a degree program in Political Science, an applicant should have a 3.0 grade point average in the last 60 hours of undergraduate work and also have completed at least 15 hours of undergraduate course work in Political Science with a 3.0 average. Applicants with less than 15 hours of Political Science courses may be required to take additional courses after admission to the Department. The Department requires submission of GRE (General Test) scores.

**Courses****310 VOTING AND ELECTIONS****3 sem. hrs.**

Intensive investigation of U.S. voting behavior and electoral process; includes instruction in analytical techniques. Prerequisites: POS 105 or 106 or 209 or consent of instructor.

**312 PUBLIC OPINION****3 sem. hrs.**

Includes attention to social and psychological bases of public opinion, current trends, methods of measurement, and opinion-policy linkages. Prerequisite: POS 105 or 106 or 209 or consent of instructor.

**313 COLLECTIVE DECISION-MAKING****3 sem. hrs.**

Game theory approach to decision-making in large groups, including legislatures, unions, oligopolies, bureaucratic organizations, and international negotiations. Prerequisite: 3 hours POS or consent of instructor.

**317 U.S. POLITICS AND CULTURE  
AFTER VIETNAM****3 sem. hrs.**

Examination of the impact of the Vietnam War on contemporary U.S. politics. Prerequisite: POS 101 or 105 or 106 or consent of instructor.

**318 ADMINISTRATIVE LAW****3 sem. hrs.**

An overview of administrative law topics such as legislative, executive, and judicial control of administrative actions, public and private access to information, the administrative hearing process, and other due process concerns. Prerequisites: 60 hours or consent of instructor. POS 215 recommended.

**323 STATE POLITICAL SYSTEMS****3 sem. hrs.**

Exploration of the nature of state politics through comparison, contrast and synthesis of micropolitical and macropolitical research in state politics. Prerequisite: POS 221 or consent of instructor required.

**324 TOPICS IN PUBLIC LAW****3 sem. hrs.**

Selected topics focusing on specialized aspects of public law. Prerequisites: POS 101 or 105 or 106 or consent of instructor required; POS 215 recommended. May be repeated if content different.

**325 CONSTITUTIONAL LAW:  
FUNCTIONS AND POWERS****3 sem. hrs.**

Major Supreme Court decisions on federalism, separation of powers, taxation, commerce, voting, and citizenship. Prerequisites: 60 hours or consent of instructor. POS 215 recommended.

**326 CONSTITUTIONAL LAW:  
DUE PROCESS RIGHTS****3 sem. hrs.**

An examination of major Supreme Court decisions involving both procedural and substantive due process rights. Prerequisites: 60 hours or consent of instructor. POS 215 recommended.

**327 CONSTITUTIONAL LAW:  
EQUALITY AND FREE EXPRESSION****3 sem. hrs.**

An examination of major Supreme Court decisions involving discrimination, and freedom of speech, press, assembly, and religion. Prerequisites: 60 hours or consent of instructor. POS 215 recommended.

**329 THE POLITICS OF FEDERALISM****3 sem. hrs.**

Federalism in theory and practice, focusing on U.S.; politics and policy in intergovernmental contexts; recent initiatives and current problems. Prerequisites: POS 221 or consent of instructor.

**330 PROBLEMS OF PUBLIC ADMINISTRATION****3 sem. hrs.**

Varied approaches to problems relevant to public policy, organization development, management, staff, or personnel concerns, and applied behavioral techniques. May be repeated if content is different. Prerequisite: POS 231 or consent of instructor.

**331 PUBLIC PERSONNEL ADMINISTRATION****3 sem. hrs.**

The personnel process in American bureaucracy: matching the individual and the job; employer-employee relations; employee motivation; problems and prospects. Prerequisite: POS 231 or consent of instructor.

**332 PUBLIC POLICY ANALYSIS****3 sem. hrs.**

Comparative policy research; an assessment of factors affecting policy formation and approaches to evaluation of consequences of specific domestic public programs. May be repeated if content different. Prerequisite: POS 209 or 232 or consent of instructor.

**333 POLITICS, BUDGETS, AND TAXES****3 sem. hrs.**

Meaning, significance, content and historical evolution of government budgeting processes and reforms at all levels of government, as well as the political implications of fiscal reforms. Prerequisite: POS 231 or consent of instructor.

**334 THE POLITICS OF RACE, ETHNICITY  
AND INEQUALITY****3 sem. hrs.**

Analysis of contending theories and ideologies concerning the role of race and ethnicity in American politics and public policy. Prerequisites: POS 101 or 105 or 106 or consent of instructor. POS 214 or 231 or 232 or 327 recommended.

**335 COMMUNITY DEVELOPMENT****3 sem. hrs.**

An examination of strategies and techniques employed in the United States and abroad in community development. Prerequisites: POS 101 or 105 or 106 or consent of instructor.

**340 TOPICS IN LATIN AMERICAN POLITICS****3 sem. hrs.**

Selected topics focusing on specialized aspects of Latin American politics. Prerequisite: One of the following courses: POS 145, 240, GEO 230, HIS 127, 263 or consent of instructor.

**341 TOPICS IN EUROPEAN POLITICS****3 sem. hrs.**

Selected topics focusing on specialized aspects of European politics. Prerequisites: One of the following courses: POS 141, 242, 243, GEO 240, 245, HIS 229, 234, 237, 366 or consent of instructor. May be repeated if content different.

**344 TOPICS IN GLOBAL STUDIES****3 sem. hrs.**

An intensive review and analysis of critical global problems and strategies for dealing with them. Prerequisite: One of the following: POS 150, 151, 251, 252, 254, 255, 256, or consent of instructor. May be repeated if content different.

**345 TOPICS IN ASIAN POLITICS**  
3 sem. hrs.

Selected topics focusing on specialized aspects of Asian Politics. Prerequisite: One of the following: POS 145, 245, 255; HIS 373, 375, or consent of instructor. May be repeated if content different.

**349 TOPICS IN MIDDLE EAST POLITICS**  
3 sem. hrs.

Selected topics focusing on specialized aspects of Middle East politics. Prerequisites: One of the following courses: POS 145, or 247, or HIS 272, or consent of instructor. May be repeated if content is different.

**351 INTERNATIONAL LAW**  
3 sem. hrs.

Political nature, legal principles, and juridical procedures and cases of contemporary international law. Prerequisite: One of the following: POS 151, 251, 252, 254, 255, 256, or consent of instructor.

**352 HUMAN RIGHTS**  
3 sem. hrs.

General overview of human rights: philosophical foundation, historical development, main documents, institutions, movements and campaigns. Prerequisites: POS 140, 151, 251, 252, 254, or 255, or consent of instructor.

**358 INTERNATIONAL POLITICAL ECONOMY**  
3 sem. hrs.

An analysis of the structures of political power in the international political economy. Prerequisites: POS 151, 251, 252, 254, 255, 256, or consent of instructor.

**361 TOPICS IN POLITICAL THEORY**  
3 sem. hrs.

Selected advanced topics covering specific concepts or authors in political theory. Prerequisites: POS 101, 105, 106, or 161 or 60 semester hours or consent of instructor. May be repeated if content different.

**363 POLITICAL THEORIES OF NONVIOLENCE**  
3 sem. hrs.

Analysis of contending theories and approaches regarding non-violence and civil disobedience. Prerequisite: One of the following: POS 101, 105, 106, 161, 261, 262, 265, or consent of instructor.

**Seminars/Topics**

The content of the following seminars/topics will vary according to the interests of the particular instructor offering the course. Provided different material is covered, a seminar/topic may be repeated.

**411 SEMINAR IN AMERICAN POLITICS**  
3 sem. hrs.**412 TOPICS IN AMERICAN POLITICS**  
3 sem. hrs.

A selected topic, e.g., presidency, Congress, mass political behavior, selected policy problems, etc. May be repeated once if content differs.

**417 POLITICAL CULTURES**  
3 sem. hrs.

Examines the relationships among the values, ideas, and structures of societies and the politics they practice. Prerequisite: Graduate standing in POS, or consent of instructor.

**421 SEMINAR IN STATE AND LOCAL POLITICS**  
3 sem. hrs.**422 SEMINAR IN URBAN POLITICS**  
3 sem. hrs.**431 SEMINAR IN PUBLIC ADMINISTRATION**  
3 sem. hrs.**432 SEMINAR IN JUDICIAL POLITICS**  
3 sem. hrs.**433 TOPICS IN PUBLIC ADMINISTRATION**  
3 sem. hrs.

A selected topic, e.g., organization theory and behavior, public management, personnel, etc. May be repeated once if content differs.

**441 SEMINAR IN COMPARATIVE POLITICS**  
3 sem. hrs.**442 TOPICS IN COMPARATIVE POLITICS**  
3 sem. hrs.

A selected region, e.g., Western Europe, Middle East, Africa, Latin America, etc., or selected topic, e.g., global development. May be repeated once if content differs.

**451 SEMINAR IN INTERNATIONAL RELATIONS**  
3 sem. hrs.**452 TOPICS IN INTERNATIONAL RELATIONS**  
3 sem. hrs.

A selected topic, e.g., international political economy, international law and organizations, foreign policy problems, etc. May be repeated once if content differs.

**461 SEMINAR IN POLITICAL THEORY**  
3 sem. hrs.

May be repeated once if content differs.

**471 SEMINAR IN COMMUNITY DEVELOPMENT**  
3 sem. hrs.

The seminar will review the theoretical and applied literature on community development both within the United States and around the world. Prerequisites: Graduate standing in POS, ECO, or SOA, or consent of instructor.

**472 NOT FOR PROFIT ADMINISTRATION**  
3 sem. hrs.

Skills needed for creating and managing not for profit organizations for community development, both in the U.S. and internationally. Prerequisite: Graduate standing in POS, ECO, or SOA, or consent of instructor.

**473 COMMUNITY PROJECT DESIGN AND MANAGEMENT**  
3 sem. hrs.

Design, planning, and implementation skills for leadership of community development projects. Focus on applied research, group process, budget management, and grant writing. Prerequisite: Graduate standing in POS, ECO, or SOA, or consent of instructor.

**490 READINGS IN POLITICAL SCIENCE**  
1-3 sem. hrs.

For the student who would benefit from more specialized or independent study adapted to his/her background and needs. To be taken only with permission of the student's adviser.

**491 INTERNSHIP IN COLLEGE TEACHING  
IN POLITICAL SCIENCE**  
3 sem. hrs.

Credit for the course is given in C&I (see C&I 491).

**495 GRADUATE RESEARCH IN APPLIED  
COMMUNITY DEVELOPMENT**  
3 sem. hrs.

Taken in conjunction with POS 498.12. Involves independent research on a substantive problem in community development associated with the student's professional practice experience. Prerequisite: POS 498.12 or concurrent registration.

**497 INTRODUCTION TO RESEARCH  
METHODOLOGY**  
3 sem. hrs.

An introduction to empirical political analysis, concentrating on selection of a research problem, collection of data, research design, and execution of a complete research project. Emphasis on understanding and interpreting frequently used statistical concepts. Provides a background for the preparation of the thesis. Enables the student to become an intelligent consumer of the products of professional political science research.

**498 PROFESSIONAL PRACTICE**  
1-6 sem. hrs.

Public service or community development internship.

**499 MASTER'S THESIS**  
1-6 sem. hrs.

## PSYCHOLOGY (PSY)

**Chairperson:** David Patton Barone. Office: 435E DeGarmo Hall.

**Graduate Program Directors:** Salvatore Catanzaro, Mark Swerdlik.

**Graduate Faculty:** L. Alferink, D. Barone, R. Bergner, L. Berk, J. Binning, J. Bucy, S. Catanzaro, G. Creasey, K. Critchfield, T. Critchfield, J. Cutting, E. DeSouza, V. Farmer-Dougan, P. Garris, D. Graybill, D. Hardwick, M. Hesson-McInnis, K. Hoff, C. Horton, A. House, P. Jarvis, J. Johnson, J. Kahn, B. Ladd, S. Landau, J. Laurent, D. McBride, A. Meyers, M. Nauta, K. Pfof, J. Pryor, G. Redding, G. Reeder, M. Reese-Weber, M. Stevens, M. Swerdlik, K. Williams.

The Department of Psychology offers the MA and MS in Psychology, the Specialist in School Psychology and the Ph.D. in School Psychology. All graduate students are required to take PSY 418, 420, and 341 (or 442).

The department operates a psychological services center for the assessment and treatment of children and families. Some graduate students enrolled in the practica spend part of their time working in this center.

### Admission Requirements

To be admitted to a Psychology degree program, an applicant must have at least a 3.0 grade point average in the last 60 hours of undergraduate work and must present Graduate Record Examination (GRE) scores for the General Test. The applicant must complete the departmental application and arrange to have three letters of recommendation forwarded to the depart-

ment. In addition, most sequences require a writing sample, and the Ph.D. program requires a campus interview.

## Psychology

Students are admitted into the psychology master's degree program in one of the following sequences: Clinical-Counseling, Developmental, Industrial/Organizational-Social, Quantitative, or Cognitive and Behavioral Sciences. Sequence requirements and descriptions are given below. All students must complete either a thesis or a comprehensive examination requirement. For more specific information interested students are requested to see the department's Web site or send their inquiries to the department Graduate Program Director or the sequence coordinator.

### Clinical-Counseling

This sequence requires two years of study and is designed to prepare students to provide counseling services in settings such as mental health centers, family service agencies, employee assistance programs, community colleges, substance abuse treatment facilities, and other mental health positions. The program includes two semesters of practica in campus and community settings which build on course work in basic psychology, psychological assessment, and theories and techniques of psychotherapy. These dual practicum placements prepare students to work with a diverse clientele. Students who complete this sequence meet minimum requirements to sit for the Illinois Licensed Professional Counselor Examination. Minimum 48 hours required.

### Developmental

This sequence is designed for students who plan on pursuing doctoral work or for students who desire to pursue a career applying developmental psychology to problems of children, adolescents, or the elderly. Thirty-two (32) hours required.

### Cognitive and Behavioral Sciences

This sequence of study emphasizes the development of topical, methodological, and quantitative skills in basic research content areas. The training is applicable to doctoral study (especially in behavioral neuroscience and cognitive science), community college teaching, certain positions emphasizing research in the business-industrial sector, and certain positions emphasizing empirical decision-making in non-clinical behavior management.

### Industrial/Organizational-Social

This sequence prepares students for positions in personnel, training, management, labor relations, and research, or enhances their effectiveness in their present position. Students may elect professional practice placements or research at the interface of I/O and Social psychology.

### Quantitative

This sequence covers basic and applied statistics relevant to all areas of psychology. Students have the opportunity to develop substantive research interests in psychology, statistical consulting skills, and teaching skills. Students who complete the sequence are prepared to enter doctoral programs, provide statistical consultation, work in applied research settings, and teach. Thirty-two (32) hours required, including a research thesis.

## School Psychology

### Specialist Degree in School Psychology

This program requires three years of study and is designed to prepare students to function as school psychologists in public schools. Graduates of the program are eligible for the state and national certification exam for School Psychologists. The program is approved by the Illinois State Board of Education and by the National Association of School Psychologists (NASP)/National Council for the Accreditation of Teacher Education (NCATE). The department operates a psychological services clinic and participates in a multidisciplinary psychoeducational center for the assessment and treatment of children and families. As part of their year-long practicum, students spend their time working in these settings and in school-based sites. Students must complete a thesis and an internship. A minimum of 61 hours are required.

### Doctoral Degree in School Psychology

The department offers work leading to a Ph.D. degree in School Psychology. The program is accredited by the American Psychological Association (APA) and approved by the National Association of School Psychologists (NASP)/National Council for the Accreditation of Teacher Education (NCATE). The doctoral program is designed to prepare professionals to assume a variety of leadership positions in the field, including direct service provider, supervisor of psychological services and university trainer. Graduates work in a variety of settings such as public and private schools, universities, hospitals, mental health centers and independent practice. In addition to core courses in the basic areas of psychology, students are required to choose from among four skill sequences in which to specialize. These sequences include assessment, intervention (including therapy), supervision/administration, and consultation/program evaluation. A concentration is also available for those students who wish to individually design another specialization such as early childhood assessment/intervention or developmental psychopathology.

A student's program will include formal course work, practica, year-long internship and a dissertation. Students are required to be in residence for at least one academic year. Graduates of the doctoral program, with the required post-doctoral experience, are eligible for the state licensing exam for Clinical Psychologists, as well as for the state and national certification exam for School Psychologists.

### Professional Development Sequence in Social Aspects of Aging

Social Aspects of Aging Sequence is a multidisciplinary program designed to offer a limited number of academically and professionally oriented graduate experiences in aging. The sequence is housed in the Graduate School with advisement provided by the Psychology Department in cooperation with the Departments of: Sociology and Anthropology, Family and Consumer Sciences, and Speech Pathology and Audiology.

**Requirements for Admission to the Program:** Potential applicants must have earned a bachelor's degree (or equivalent) and meet the requirements for admission to the Graduate School as students-at-large. Credit for courses may be applied to a graduate degree program if approved by a specific graduate program. (See Policy of Graduate School.) Potential applicants may contact the Graduate School or specific department advisers for application forms and further information.

**Sequence Requirements:** 12 hours required, which includes 1) Seminar in Gerontology (3 hours) to be taken after at least six of the other required hours have been completed, and 2) 9 hours of electives from among the following gerontology related courses:

#### Required Course (3 hours)

**Seminar in Gerontology (SOC 469.08)** Advanced treatment of gerontology including approximately one-third in overview of current gerontological issues plus selected topics in gerontology, e.g., Economics of Aging, Cross-Cultural Aspects of Aging, the Future of Aging.

#### Elective Courses (9 hours)

**Health Aspects of Aging (HSC/FCS 394)** Characteristics of the aging process and factors influencing adaptation and the quality of living.

**Gerontological Psychology (PSY 304)** Psychological aspects of developmental transformations occurring during later adulthood. Application of psychology to problems of aging.

**Human Communication and the Aging Process (COM 331)** An examination of the particular communication needs of the aging and current research in the field.

**Families in Later Life (FCS 305)** Exploration of family dynamics in later life. Emphasis on developmental tasks, needs, and decision-making issues of aging family members.

**Experience in Gerontology:** Each student enrolled in the Sequence may negotiate with the Sequence Representative in the sponsoring department credit for 3 hours of "experience" in gerontology. This may include, but is not limited to, 400 Independent Study or 498 Professional Practice in any department/program which is relevant to the Sequence. Each "experience" is expected to involve some focused writing and analysis assignments. This experience should ordinarily be permitted after other courses are completed - at least *Seminar in Gerontology*. If the experience is of a "selected problems" type, a proposal should be approved by the Departmental Sequence Adviser no later than the 5th week of the semester.

### Courses

#### 301 DEVELOPMENTAL PSYCHOLOGY OF CHILDHOOD

3 sem. hrs.

Motor, cognitive, and emotional development and personality growth of children, birth through pre-adolescence. Prerequisite: PSY 110 or 111.

#### 302 DEVELOPMENTAL PSYCHOLOGY OF ADOLESCENCE

3 sem. hrs.

Motor, cognitive, and emotional development and personality growth of the adolescent. Prerequisite: PSY 110 or 111. May include clinical experiences.

#### 303 ADULT DEVELOPMENT AND AGING

3 sem. hrs.

A study of physical, cognitive, and personality development during adulthood, with emphasis on theories, empirical data, research methods, and current issues. To receive graduate credit for the course, students will complete an independent project in addition to the regular course requirements. Prerequisite: PSY 110 or 111.

**304 GERONTOLOGICAL PSYCHOLOGY****3 sem. hrs.**

Psychological aspects of developmental transformations occurring during later adulthood. Applications of psychology to problems of aging. Prerequisite: PSY 110 or 111.

**305 PSYCHOLOGY OF WOMEN****3 sem. hrs.**

An examination of psychological research to place in scientific perspective the etiology and behavioral consequences of female- and male-oriented attitudes. Prerequisite: PSY 110 or 111.

**320 HISTORY AND SYSTEMS OF PSYCHOLOGY****3 sem. hrs.**

Historical antecedents of modern psychology, beginning with Aristotle. Examination of modern psychology from a systematic point of view. Prerequisite: PSY 111.

**331 STUDIES IN EXPERIMENTAL PSYCHOLOGY****3 sem. hrs.**

Individualized research course focusing on particular content areas. Sections concentrate on different areas. Repeatable but not in the same content area. Prerequisites: PSY 231 and 240 or ECO/GEO/POS/PSY 138 or consent of instructor.

**333 PRINCIPLES OF BEHAVIOR MODIFICATION****3 sem. hrs.**

Principles of behavior modification with an emphasis upon their use in a variety of educational and clinical settings. Prerequisite: PSY 110 or 111.

**334 PSYCHOLOGICAL MEASUREMENT****3 sem. hrs.**

Selection, evaluation, and interpretation of psychological tests, with emphasis on basic theory. Tests are considered as indicators of constructs in specific decision situations. Prerequisite: PSY 110 or 111.

**340 STATISTICS FOR THE SOCIAL SCIENCES****3 sem. hrs.**

Advanced statistical techniques for the behavioral sciences including hypothesis testing, inferential statistics, and data analysis using SPSS. Prerequisites: PSY/ECO/GEO/POS 138.

**345 COMPUTER APPLICATIONS  
IN PSYCHOLOGY****3 sem. hrs.**

Application of computer technology to psychology. Special emphasis is placed on the use of computer statistical packages to analyze psychological data. Prerequisites: PSY 240 and MAT 144 or MAT 120. Majors only or consent of department chair.

**346 PSYCHOLOGY OF EXCEPTIONAL CHILDREN****3 sem. hrs.**

A study of the socio-psychological factors influencing the exceptional child's cognitive and affective development with implications for those working with exceptional children. Prerequisite: PSY 112 or 113 or 301 or 302 or 232 or C&I 210 or consent of instructor. May include clinical experiences.

**347 BEHAVIOR DISORDERS IN CHILDREN****3 sem. hrs.**

Medical, psychological, sociological aspects of behavioral disorders of children. Prerequisite: PSY 110 or 111.

**350 PSYCHOPATHOLOGY****3 sem. hrs.**

Behavior disorders; neuroses, psychoses, character disorders, mental deficiencies, and other psychopathological conditions. Prerequisite: PSY 110 or 111.

**360 LEARNING****3 sem. hrs.**

Experimental data bearing on the problem of learning; learning theory; learning data and theory in relation to applied problems. Prerequisite: PSY 111.

**361 PERCEPTION****3 sem. hrs.**

Cognitive processes and their relationship to other processes. Relationship of sensation, attention, and memory to perception and factors influencing perception. Prerequisite: PSY 111, or consent of instructor.

**363 PHYSIOLOGICAL PSYCHOLOGY****3 sem. hrs.**

Neurophysiological and biochemical substrates of behavioral processes including sensorimotor, perceptual, motivational, emotional, and intellectual behaviors. Prerequisites: PSY 111 and BSC 101, or consent of instructor.

**364 MOTIVATION****3 sem. hrs.**

Evolution of basic concepts leading to contemporary explanation of determiners of action with application to vocational, social, and educational areas. Prerequisite: PSY 110 or 111.

**365 DYNAMICS OF SOCIAL BEHAVIOR****3 sem. hrs.**

An overview of the explanations for various aspects of social behavior, e.g., interaction, attitudes, person perception, etc. Prerequisite: PSY 131 or SOC 131.

**366 COGNITIVE PSYCHOLOGY****3 sem. hrs.**

Information processing analysis of perception, attention, memory, language, and thinking. Prerequisites: PSY 111 and PSY 231 or consent of instructor.

**367 INTRODUCTION TO BEHAVIORAL  
PSYCHOPHARMACOLOGY****3 sem. hrs.**

Foundation concepts of behavioral psychopharmacology including basic brain anatomy and physiology, neural mechanisms of drug action, and examination of drug action and behavior. Prerequisite: PSY 231; BIO 101 or 196. PSY 363 recommended.

**375 PERSONNEL PSYCHOLOGY****3 sem. hrs.**

Procedures and methods used to match individual skills and abilities to the requirements of specific jobs; emphasis is on personnel selection. Prerequisite: PSY 230 or 334 or graduate standing.

**376 ORGANIZATIONAL PSYCHOLOGY****3 sem. hrs.**

Research methods and results concerning social psychology of work organizations. Descriptions of practices of organizational psychology. Prerequisite: PSY 230 or graduate standing. Not for credit if had MQM 221 or 421.

**400 INDEPENDENT STUDY****1-4 sem. hrs.**

Refer to Index for General Courses.

**418 THEORIES OF LEARNING****3 sem. hrs.**

A consideration of the major contemporary learning theories and their relationship to experimental data. Prerequisite: PSY 231 or 360.



**420 THEORIES OF PERSONALITY****3 sem. hrs.**

Analysis of major theoretical formulations concerning personality with emphasis upon their current status and evidential bases. Prerequisite: Graduate standing in Psychology or consent of instructor.

**421 ADVANCED BEHAVIOR MODIFICATION****3 sem. hrs.**

Techniques for changing behavior through manipulation of environment. General principles of conditioning plus their application to patterns of problem behavior. Prerequisite: PSY 331 (operant) or 333 or 360, or consent of instructor.

**426 RESEARCH AND PRACTICE IN I/O-SOCIAL PSYCHOLOGY****1 sem. hrs.**

This course provides students and faculty an opportunity to exchange information, present research, examine professional issues, and explore professional practice issues. Prerequisites: Graduate standing in I/O-Social Psychology Sequence and consent of instructor. May be repeated for credit up to four times.

**431 THEORY AND RESEARCH IN SOCIAL PSYCHOLOGY****3 sem. hrs.**

Topics include methods of research in social psychology, social cognition, persuasion, sex roles, self, helping and aggression, and group processes. Prerequisite: PSY 365 or consent of instructor.

**432 PSYCHODIAGNOSTICS I****3 sem. hrs.**

Theory of and training in individual mental testing with emphasis on the Binet and the Wechsler tests. Prerequisites: PSY 334 or consent of instructor. Materials charge optional.

**433 PSYCHODIAGNOSTICS II****3 sem. hrs.**

Theory of projective methods and development of competence in the use of selected procedures. Prerequisites: PSY 432 and consent of instructor.

**434 DEVELOPMENTAL ASSESSMENT OF INFANTS AND PRESCHOOL-AGE CHILDREN****4 sem. hrs.**

Psychological evaluation of the infant and preschool-age child from a developmental-ecological perspective, with experience in administering and interpreting selected instruments. Prerequisites: Prior course work in assessment and consent of instructor.

**435 DIAGNOSTIC PROCEDURES****3 sem. hrs.**

Emphasis is on the assessment, diagnosis, and remediation of learning disabilities with particular stress on a psycholinguistic approach. Prerequisites: Graduate standing in Psychology and consent of instructor.

**436 PRACTICUM****1-12 sem. hrs.**

Clinical practice in university facilities and outside agencies. Provides training in diagnosis and treatment. Fifteen hours per week. Prerequisites: Clinical-Counseling, PSY 464 and consent of instructor; School, PSY 432, 433, and 435 and consent of instructor. May be repeated to a total of twelve semester hours.

**437 GROUP PSYCHOTHERAPY AND COUNSELING****3 sem. hrs.**

Theory and research in group dynamics, techniques of group therapy and counseling. Methods of evaluating groups, direct experience as group member and group leader. Prerequisites: PSY 464 or consent of instructor.

**438 TECHNIQUES OF OBJECTIVE PSYCHOLOGICAL ASSESSMENTS****3 sem. hrs.**

Clinical application of representative techniques of objective measurement. Selection, integration, and interpretation of tests will be included. Prerequisites: PSY 334 and consent of instructor.

**439 INTRODUCTION TO NEUROPSYCHOLOGICAL ASSESSMENT****3 sem. hrs.**

Designed to prepare the student to make clinical judgments regarding cognitive and personality deficits related to brain function. Prerequisites: PSY 432; PSY 363 recommended.

**440 STATISTICS: DATA ANALYSIS AND METHODOLOGY****3 sem. hrs.**

Conceptual foundations of empirical hypothesis testing and advanced aspects of data analysis using SPSS. Prerequisites: PSY 240 or 340 and a passing score on the placement test, or consent of instructor.

**441 EXPERIMENTAL DESIGN****3 sem. hrs.**

Statistical principles of experimental design; selection, analysis, and interpretation of Analysis of Variance and Covariance designs in the behavioral sciences. Prerequisite: PSY 341 or 440.

**442 TEST THEORY****3 sem. hrs.**

Theory and principles of test reliability and validity, topics in test theory, statistical procedures applicable to psychometric methods. Prerequisites: PSY 240 or 340; and 334 or consent of instructor.

**443 SURVEY METHODS AND ANALYSIS****3 sem. hrs.**

Overview of survey research methods in psychology and data analysis using advanced correlational analysis and regression models. Prerequisite: PSY 341 or 440.

**444 MULTIVARIATE ANALYSIS****3 sem. hrs.**

Topics covered include basic matrix algebra and linear transformations, analysis of covariance with multiple covariates, multivariate significance tests of group differences, discriminant analysis, multivariate analysis of variance. Prerequisite: PSY 341 or 440.

**447 CHILDHOOD PSYCHOPATHOLOGY****3 sem. hrs.**

An advanced study of the theories, characteristics, epidemiology, interventions, and research strategies involving the psychopathological disorders of childhood and adolescence. Prerequisite: 347 or 350 or consent of instructor.

**450 PSYCHOPATHOLOGY THROUGH THE LIFESPAN****3 sem. hrs.**

Classification and etiology of mental disorders as multiple systems dysfunctions. Overview of assessment methods, treatments, and referral options. Prerequisites: PSY 350 or consent of instructor.

**455 COGNITIVE SCIENCE****3 sem. hrs.**

This course provides a survey of the broad interdisciplinary field of cognitive science. Cognitive psychology, artificial intelligence, linguistics, philosophy, and neuroscience will be discussed in terms of underlying theoretical frameworks which relate these diverse areas to the common study of mind. Prerequisite: PSY 361, 363, or 418.

**463 BRAIN AND BEHAVIOR RELATIONSHIPS****3 sem. hrs.**

A survey of the relationship of the brain to various behavioral systems with particular emphasis on the developing brain. Prerequisites: Graduate standing.

**464 THEORIES AND TECHNIQUES OF COUNSELING****3 sem. hrs.**

Goals, methods, and procedures of different theoretical positions. Emphasis is on interpersonal dimensions of the counseling interview. Graduate standing in Psychology or consent of instructor.

**465 VOCATIONAL COUNSELING****3 sem. hrs.**

Acquiring and using occupational and educational information. Consideration of job requirements and training opportunities; developing occupational units; nature of vocational development. Graduate standing in Clinical-Counseling Psychology or consent of instructor.

**466 SUBSTANCE ABUSE COUNSELING****3 sem. hrs.**

The history, assessment methods, conceptual perspectives, intervention strategies, and empirical research relevant to substance abuse and its treatment. Prerequisites: Graduate standing in Psychology or consent of instructor.

**470 CLINICAL PSYCHOLOGY****3 sem. hrs.**

Traces history and philosophy of profession from assessment, psychotherapeutic and research traditions. Prerequisite: Graduate standing in Clinical-Counseling or consent of instructor.

**472 THEORY AND PRACTICE OF SCHOOL PSYCHOLOGY****3 sem. hrs.**

The roles, functions and professional problems in School Psychology. Prerequisites: Open only to students in School Psychology Program.

**474 THEORY AND PRACTICE OF MENTAL HEALTH CONSULTATION IN THE SCHOOLS****3 sem. hrs.**

Examination of consultation theory, research, and practice by school psychologists. Prerequisites: Graduate standing in School Psychology or consent of instructor.

**480 SEMINAR IN PSYCHOLOGY****1-3 sem. hrs.**

Intensive study of special topics in psychology. May be repeated for credit with different subject matter. Prerequisite: Consent of instructor.

**481 COMMUNITY MENTAL HEALTH****3 sem. hrs.**

Social systems as they affect individual mental health. Conceptual models, typical programs, methods of analyzing communities, and methods for designing community mental health programs. Prerequisite: PSY 350. Consent of instructor.

**491 INTERNSHIP IN COLLEGE TEACHING OF PSYCHOLOGY****3 sem. hrs.**

Credit for this course is given in C&I (see C&I 491). Open only to psychology graduate students.

**498 PROFESSIONAL PRACTICE****1-12 sem. hrs.**

Available in Cognitive and Behavioral Sciences and in Developmental, Industrial/Organizational-Social, Quantitative, and School Psychology. Refer to Index for General Courses. Prerequisite: Consent of program coordinator.

**499 MASTER'S THESIS****1-6 sem. hrs.**

Refer to Index for General Courses.

**500 INDEPENDENT STUDY****1-4 sem. hrs.**

Refer to Index for General Courses.

**502 RESEARCH APPRENTICESHIP****1-3 sem. hrs.**

Provides the doctoral student with an intensive experience related to the development and implementation of an empirical research project. Prerequisites: Graduate standing in School Psychology.

**536 SEMINAR AND PRACTICUM IN SUPERVISION OF SCHOOL PSYCHOLOGICAL SERVICES****3 sem. hrs.**

Goal of the course is to prepare school psychologists to supervise colleagues at various stages of their professional development. Prerequisites: Graduate standing in School Psychology and consent of instructor.

**539 SEMINAR AND PRACTICUM IN NEUROPSYCHOLOGICAL ASSESSMENT OF CHILDREN****3 sem. hrs.**

Examination of current professional issues related to neuropsychological assessment. Prerequisites: Graduate standing, PSY 432, 435, 463, and consent of instructor.

**540 SEMINAR AND PRACTICUM IN PROGRAM EVALUATION****3 sem. hrs.**

Theory and practices of assessing impact and/or value of programs and projects involving psychoeducational interventions. Prerequisites: PSY 441.

**580 ADVANCED SEMINAR IN CHILD AND ADOLESCENT THERAPEUTIC INTERVENTIONS**  
3 sem. hrs.

Examination of current professional and research issues related to therapeutic interventions. Exploration of research literature on special topics. Prerequisites: PSY 447 and 464 and consent of instructor.

**590 ADVANCED PRACTICUM IN CHILD AND ADOLESCENT THERAPEUTIC INTERVENTIONS**  
1-3 sem. hrs.

Practical field-based experience in implementation and evaluation of counseling and therapy with children and adolescents. Prerequisites: PSY 580 or concurrent enrollment and consent of instructor.

**598 DOCTORAL INTERNSHIP IN SCHOOL PSYCHOLOGY**  
1-12 sem. hrs.

The supervised practice of school psychology in a school and/or clinical setting. Prerequisite: Consent of the Coordinator of the Doctoral Program in School Psychology.

**599 DISSERTATION RESEARCH**  
Variable credit

Research relating to the dissertation requirements for the Ph.D. in School Psychology. Approval of the department chair required.

## SOCIAL WORK (SWK)

**Chairperson:** Richard Grinnell. Office: Rachel Cooper 303.

**Graduate Program Director:** Nina Hamilton.

**Graduate Faculty:** M. Campbell, M. Cunningham, R. Grinnell, N. Hamilton, J. Howard, D. Liechty, S. Smith, C. Stampley, Q. Sullivan, Y. Unrau.

The department offers the Master of Social Work degree which prepares students for advanced social work practice. This program offers a single concentration of study, Child and Family Practice that emphasizes agency-based practice with at-risk families. The degree curriculum is a 60-hour, two-year program for full-time students. New students who have completed their bachelor's degrees in a field other than social work or a non-accredited undergraduate social work program will enter the M.S.W. program in the fall term. Students with undergraduate social work degrees from programs accredited by the Council on Social Work Education may be given advanced standing and begin the program in the spring term. Students will be accepted into either the full-time program or part-time program.

### General Admission Requirements

To be considered for admission to the program as a degree candidate, an applicant must have a GPA of 3.0 on a 4.0 scale for the last 60 hours of undergraduate course work. The Graduate Record Exam (General Test) is required. In addition, a student must have successfully completed (grade of C or better) at least 40 hours of liberal arts courses, including a course in statistics and a course in human biology, and 15 hours of social science courses other than social work.

### Probationary Admission

An applicant with lower test scores or grades below the minimum levels may be considered for probationary admission if there is evidence suggesting the potential for outstanding performance in the M.S.W. program. In order to remove the probationary status, students must obtain a minimum GPA of 3.0 after the completion of 12 hours of approved graduate courses. The probationary student may carry the same academic load as a regularly admitted student and is expected to meet the same standards for continuation in the program.

### Advanced Standing Admission

In addition to the general admission requirements, an applicant for advanced standing status must have graduated from an undergraduate social work program accredited by the Council on Social Work Education. An applicant must have received a C or better in the research, social welfare policy, social work methods, human behavior, and field instruction courses. Students admitted to the advanced standing program generally will begin their course work in the spring term. Candidates admitted into the advanced standing program generally will not be required to complete course work in the generalist foundation (SWK 410, 420, 421, 430, 440, the foundation practicum 498.01, and foundation practicum seminar 488. These requirements, a maximum of 20 credit hours, will be waived from the program requirements.

### Program Requirements

A student must maintain a cumulative GPA of 3.0 in all required courses to retain degree candidate status and to be eligible for department practica. Enrollment in the field practicum courses requires degree candidate status and must be planned in advance with the Director of Field Education. In addition, all requirements for the M.S.W. degree must be completed within six calendar years beginning with the date the student first registers as a degree candidate.

Candidates for the M.S.W. degree must be enrolled full-time for the semester during which they complete the advanced practicum, SWK 498.02.

Course requirements for successful completion of the M.S.W. degree include the following:

1. Completion of all 20 hours of required courses in the foundation curriculum: SWK 410, 420, 421, 430, 440, 488, and 498.01 or waiver of these courses due to advanced standing or course waiver granted upon program admission.
2. Completion of 40 hours of advanced course work including practicum.

Required courses: PSY 450, SWK 415, 425, 426, 428 or 479, 435, 438, 445, 448, 460, 490, and 498.02.

Elective courses: 6 hours from the following: SWK 388, 400, 426, 455, 466, 470, 480, 484, 486, 487, or substitute graduate coursework in another department, to be approved by departmental advisor.

The department reserves the right to enforce professional standards of practice as specified in the Illinois Clinical Social Work and Social Work Practice Act and the National Association of Social Workers Code of Ethics. These standards may be taken into consideration in program retention decisions. Students have the right to appeal these decisions.

## Courses

### 323 CHILD WELFARE SERVICES

3 sem. hrs.

Recommended before SWK 398.10 if student wishes placement in a child-serving agency. Services for dependent, neglected, and handicapped children. Prerequisite: SWK 222 recommended, or Family and Consumer Sciences major or Special Education major.

### 388 SOCIAL WORK IN RURAL COMMUNITIES

2 sem. hrs.

An overview of social work in rural areas, the culture of communities, and the impact of personal, cultural, and institutional factors on vulnerable groups. Prerequisite: SWK 325 or consent of instructor.

### 400 INDEPENDENT STUDY

1-3 sem. hrs.

Refer to Index for General Courses

### 410 FOUNDATIONS OF HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT

4 sem. hrs.

Integrates theories of human development, social systems, and culture with their implications for social work practice. Prerequisite: Graduate standing.

### 415 FAMILY SYSTEMS IN ENVIRONMENTAL CONTEXT

3 sem. hrs.

Interrelated theories of family systems, culture, and environment. Particular emphases include key social problems affecting families: poverty, racism and discrimination, violence, substance abuse, and mental illness. Prerequisites: SWK 410, or advanced standing; and graduate standing.

### 420 FOUNDATIONS OF SOCIAL WORK PRACTICE

3 sem. hrs.

Generalist social work practice with diverse individuals, families, groups, and communities. Taken concurrently with SWK 421 Foundation Skills Laboratory. Prerequisite: Graduate standing. Concurrent registration in SWK 421 required, or advanced standing.

### 421 FOUNDATION SKILLS LABORATORY

1 sem. hr.

This MSW laboratory course is the required complement to SWK 420. The course teaches fundamental interviewing and recording skills for effective and accountable social work practice. Prerequisites: Graduate standing. Concurrent registration in SWK 420 required or advanced standing.

### 425 FAMILY CENTERED PRACTICE

3 sem. hrs.

Major approaches to working with families with particular emphasis on vulnerable family systems and families involved with the child welfare system of other large service systems. Prerequisites: SWK 420, 421, or advanced standing; and graduate standing.

### 426 SUPERVISION IN FAMILY CENTERED PRACTICE

3 sem. hrs.

Theories, models, and techniques of supervision for promoting effective, family-centered, agency-based practice. Prerequisites: SWK 420, 421, or advanced standing; SWK 425; and graduate standing.

### 428 SOCIAL WORK WITH CHILDREN & ADOLESCENTS

3 sem. hrs.

An advanced course in theory and practice with children and adolescents, with particular attention to children in the child welfare system or in other special circumstances. Prerequisites: SWK 410, 420, 421, 430, and 440 or advanced standing; SWK 425; and graduate standing.

### 430 FOUNDATIONS OF SOCIAL WELFARE POLICY AND SERVICES

4 sem. hrs.

An overview of the central social welfare laws and policies that undergird the system of benefits and services in the U.S., and analytic frameworks for evaluating social welfare policy, programs and issues. Prerequisite: Graduate standing.

### 435 CHILD AND FAMILY POLICY

3 sem. hrs.

This course examines federal and state social welfare policies affecting children and families with particular emphasis on policy related to poverty and child maltreatment. Prerequisites: SWK 430 or advanced standing; and graduate standing.

### 438 SOCIAL WORK AND THE LAW

2 sem. hrs.

Introduction to laws, legal procedures and issues related to social work with children and families. Includes legal provisions related to poverty, family life, minority status, the legal authority of social agencies, and the regulation of the profession. Prerequisites: SWK 430 or advanced standing; and graduate standing.

### 440 FOUNDATIONS OF SOCIAL WORK RESEARCH

3 sem. hrs.

This is the first required graduate-level research course for students who do not have a BSW degree. It is the graduate foundation course for MSW students and focuses on the use of various knowledge paradigms that are utilized to advance the knowledge base of our profession. Prerequisite: Graduate standing.

### 445 EVALUATION IN CHILD AND FAMILY CENTERED PRACTICE

3 sem. hrs.

This course focuses on how case- and program-level evaluations are carried out with child and family centered social service agencies. Prerequisites: SWK 440 or advanced standing; and graduate standing.

### 448 INTEGRATION OF RESEARCH AND PRACTICE

2 sem. hrs.

This course is designed to intimately acquaint students with the problems and pitfalls of evaluation research through the experience of doing it. Prerequisites: SWK 410, 420, 421, 430, and 440, or advanced standing; SWK 445, and graduate standing. Concurrent registration in SWK 498.02 is required.

### 455 AGENCY ADMINISTRATION & PROGRAM PLANNING

2 sem. hrs.

Examines organizational theory and skills, and leadership and human relations skills needed in hierarchical settings for effective social service delivery systems within social welfare agencies. Prerequisites: SWK 420, 421, 430, or advanced standing; and graduate standing.

**460 DEVELOPING CULTURAL COMPETENCE  
IN A PLURALIST SOCIETY**  
3 sem. hrs.

Examines the impact of discrimination and oppression on social work services to people of color and marginal populations. Personal responses to diversity are explored in the context of social work values and practices. Prerequisites: SWK 410, or advanced standing; and graduate standing.

**466 COMPUTER APPLICATIONS IN SOCIAL  
WORK**  
2 sem. hrs.

Concepts and techniques of computer use for social work. Prepares students to develop and apply computer technology in social work settings. Prerequisite: SWK 440.

**470 SOCIAL WORK PRACTICE AND  
SEXUAL ABUSE**  
3 sem. hrs.

This course addresses the phenomena of child sexual abuse: intra- and interpersonal dynamics, assessment and validation approaches, and intervention models for work with victims, families, and offenders are presented. Prerequisites: SWK 420, 421, or advanced standing; and graduate standing.

**479 SOCIAL WORK PRACTICE WITH OLDER  
ADULTS**  
3 sem. hrs.

An advanced course in later adult development and social work practice with this population. Prerequisites: SWK 410, 420, 421, 430, and 440, or advanced standing; SWK 425; and graduate standing.

**480 FOSTER CARE AND SPECIAL NEEDS  
ADOPTION PRACTICE**  
3 sem. hrs.

Theory and research underlying practice with foster and adoptive children and their families, with particular emphasis on helping children to heal from the impact of loss and trauma. Prerequisites: SWK 420, 421, or advanced standing; and graduate standing.

**484 INTERNATIONAL SOCIAL WORK**  
2 sem. hrs.

Comparative study of social welfare institutions, social service delivery systems, and social work practice methods across various nations. Prerequisites: SWK 420 and 430 or consent of instructor.

**486 SUBSTANCE ABUSE AND SOCIAL WORK  
PRACTICE**  
3 sem. hrs.

This course presents research and issues in substance abuse and chemical dependency, and options for prevention and treatment. Prerequisites: SWK 420, 421, or advanced standing; and graduate standing.

**487 AIDS AND SOCIAL WORK PRACTICE**  
2 sem. hrs.

An overview of the HIV/AIDS crisis in the U.S. and its implications for social work practice. Prerequisites: SWK 420, 421, or advanced standing; and graduate standing.

**488 FOUNDATION PRACTICUM SEMINAR**  
1 sem. hrs.

This seminar integrates social work knowledge and theory with generalist social work practice in an approved agency setting. Taken concurrently with the MSW foundation practicum. Prerequisites: SWK 410, 420, 421, 430, 440, or advanced standing; and graduate standing. Concurrent registration in SWK 498.01 is required.

**490 CONCENTRATION PRACTICUM SEMINAR**  
1 sem. hrs.

This seminar integrates social work knowledge and theory with advanced child and family practice in an approved agency setting. Taken concurrently with the MSW concentration practicum and the advanced research seminar. Prerequisites: Completion of all MSW foundation and concentration requirements, except SWK 448 and SWK 498.02 which must be taken concurrently, or advanced standing.

**498 PROFESSIONAL PRACTICE**  
1-12 sem. hrs.

Supervised practice experience in approved agencies for foundation and advanced practice. Prerequisite: Consent of program director. Refer to General Courses.

## SOCIOLOGY AND ANTHROPOLOGY (SOA)

**Chairperson:** Nick Maroules. Office: Schroeder Hall 338.

**Graduate Program Director:** Barbara Heyl. Office: Schroeder Hall 361.

**Graduate Faculty:** F. Beck, D. Bjorklund, R. Dirks, J. Frank, T. Gerschick, V. Gill, C. Griffin, B. Heyl, W. Leonard, N. Maroules, K. McKinney, V. Moghadam, M. Nickels, C. Orser, W. Rau, P. Schollaert, J. Skibo, S. Sprecher, J. Stanlaw, R. Stivers, W. Tolone, M. Toro-Morn, R. Treadway, R. Wazienski, A. Wortham.

### Master's Degree in Sociology

The department offers work leading to the M.A. and M.S. degrees in Sociology. The 37 hour minimum of graduate work must include Sociology 440, 466, 471, 472, and at least nine additional hours of Sociology courses at the 400 level, excluding SOC 473, 490, Independent Study, Readings, and the four hours of SOC 499 to facilitate completion of a required master's thesis project. The remaining 12 hours may be taken at the 300 or 400 level and may include up to six hours in related non-sociology courses and up to six hours of Independent Study or Readings with consent of the graduate coordinator. Entering students should have a minimum of 12 semester hours in Sociology including Sociology 270, 271, and 275 or demonstrate equivalent competency. Enrollment for such undergraduate courses may be used to remove deficiencies but hours do not count toward the 37 hour minimum for the graduate degree.

### Admission Requirements

To be considered for admission to the Master's program, a student must have at least a 3.0 grade point average (on a scale in which A equals 4) for the last 60 hours of undergraduate work and submit (1) scores from the general test of the Graduate Record Examination (GRE), (2) a personal statement of purpose, (3) a writing sample, (4) one-page resume, and (5) at least three letters of recommendation.

### Applied Community and Economic Development Concentration

This is a joint concentration with the Political Science and Economics Departments. To qualify for this concentration, students must be returning Peace Corps volunteers or have equivalent domestic or international experience with other agencies and be approved by the Sociology Graduate Program Director. In addition to meeting the other require-

ments for the master's degree in Sociology, including four required graduate courses (SOC 440, 466, 471, and 472 or 473), students are advised to complete four courses in other departments, including GEO 370, POS 433 and 471, and ECO 490.04 (one or two Sociology electives may be taken in place of GEO 370 and/or POS 433 in consultation with the Sociology Graduate Program Director).

### Professional Development Sequence in Social Aspects of Aging

Social Aspects of Aging Sequence is a multidisciplinary program designed to offer a limited number of academically and professionally oriented graduate experiences in aging. The sequence is housed in the Graduate School with advisement provided by the Sociology and Anthropology Department in cooperation with the Departments of: Family and Consumer Sciences, Psychology, and Speech Pathology and Audiology.

**Requirements for Admission to the Program:** Potential applicants must have earned a bachelor's degree (or equivalent) and meet the requirements for admission to the Graduate School as students-at-large. Credit for courses may be applied to a graduate degree program if approved by a specific graduate program. (See Policy of Graduate School.) Potential applicants may contact the Graduate School or specific department advisers for application forms and further information.

**Sequence Requirements:** 12 hours required, which includes 1) Seminar in Gerontology (3 hours) to be taken after at least six of the other required hours have been completed, and 2) 9 hours of electives from among the following gerontology related courses:

#### Required Course (3 hours)

**Seminar in Gerontology (SOC 469.08)** Advanced treatment of gerontology including approximately one-third in overview of current gerontological issues plus selected topics in gerontology, e.g. Economics of Aging, Cross-Cultural Aspects of Aging, the Future of Aging.

#### Elective Courses (9 hours)

Health Aspects of Aging (HSC/FCS 394)  
Gerontological Psychology (PSY 304)  
Human Communication and the Aging Process (COM 331)  
Families in Later Life (FCS 305)

**Experience in Gerontology:** Each student enrolled in the Sequence may negotiate with the Sequence Representative in the sponsoring department credit for 3 hours of "experience" in gerontology. This may include, but is not limited to, 400 Independent Study or 498 Professional Practice in any department/program which is relevant to the Sequence. Each "experience" is expected to involve some focused writing and analysis assignments. This experience should ordinarily be permitted after other courses are completed - at least *Seminar in Gerontology*. If the experience is of a "selected problems" type, a proposal should be approved by the Departmental Sequence Adviser no later than the 5th week of the semester.

### Courses in Sociology

#### 311 ISSUES IN GERONTOLOGY 3 sem. hrs.

Advanced treatment of selected subjects in gerontology. Prerequisite: SOC 211, or consent of instructor.

#### 317 SOCIOLOGY OF SPORT 3 sem. hrs.

The social institution of sport is examined using the sociological concepts of social organization, culture, socialization, deviance, social stratification, minority groups, and collective behavior. Also offered as HPR 317. SOC 106 recommended.

#### 331 SELF AND SOCIETY 3 sem. hrs.

Analysis of the micro-level relationships between the individual and society. Topics include social interaction, the self, identity, and emotion management. Prerequisites: 45 hrs. or consent of instructor; SOC 106 recommended. Not for credit if had SOC 332. Formerly SOC 332.

#### 341 THE SOCIOLOGY OF GENDER 3 sem. hrs.

Explores the concepts, theories, and methods sociologists utilize to explain differences in the social relations between and among women and men. Individual, interactional, institutional and social change processes are examined. Prerequisites: 75 hours of consent of instructor required; SOC 106 or PSY 111 recommended.

#### 350 SOCIOLOGY OF EDUCATION 3 sem. hrs.

Sociological perspective on educational systems. Relationship of the educational system to other institutions, organizational characteristics, and social factors influencing behavior of students.

#### 355 INDUSTRY AND SOCIETY 3 sem. hrs.

Sociological theories are used to understand how technological advancement influences social forces, and produces unique cultural patterns in modern industrial societies. Prerequisite: SOC 255.

#### 362 POPULATION 3 sem. hrs.

Dynamics of population size and change, including fertility, mortality, migration, composition, spatial distribution, family, and relation to resources in the United States and the world; application and policy implications. Prerequisites: 75 hours or consent of instructor required; SOC 106 recommended. Formerly SOC 267.

#### 365 JUVENILE DELINQUENCY 3 sem. hrs.

Delinquency as a social and legal problem; theories of delinquency, the juvenile court; prevention and treatment. SOC 106 recommended.

#### 366 CONTEMPORARY SOCIAL MOVEMENTS 3 sem. hrs.

Patterns of collective behavior; structure and functions of social movements. Examination of several social movements, analysis of morale, leadership and control. SOC 106 recommended.

#### 367 CRIMINOLOGY 3 sem. hrs.

Criminological theory and practice. Crime as a social and legal problem. The administration of justice.

**431 ADVANCED SOCIAL PSYCHOLOGY****3 sem. hrs.**

Intensive study of a major sub-area of social psychology. Socialization, social role theory, self theory, collective behavior, attitude formation and measurement.

**440 INTERMEDIATE SOCIAL STATISTICS****3 sem. hrs.**

Applied course in social statistics, emphasizing the use and interpretation of bivariate and multivariate statistical techniques, such as cross tabulations, multiple regression, and related techniques. Prerequisite: SOC 471.

**461 READINGS IN SOCIOLOGY****1-3 sem. hrs.**

A course for the graduate student who would benefit from a specialized independent type of study adapted to the student's background and needs. To be taken by permission of the graduate coordinator and the instructor involved.

**465 SOCIOLOGY OF FORMAL ORGANIZATIONS****3 sem. hrs.**

Analysis of classical organizational models including: Weberian, Classical Management, Human Relations, Decision Making, and Political Process. Focus on environmental, contextual, structural, process, and performance dimensions of organizations. Crosslisted with CJS.

**466 SOCIOLOGICAL THEORY****3 sem. hrs.**

An analysis of recent theoretical developments in Sociology. Attention will focus on a variety of social theories found useful in explaining social phenomena.

**467 SOCIOLOGY OF LAW****3 sem. hrs.**

Sociological theories of law, and research on law in society. Attention to judicial and jury decision-making, legal structures, legislation, power, beliefs, conflict, and social change. Public, civil, and criminal law included. Crosslisted with CJS.

**469 SEMINAR IN SOCIOLOGY****3 sem. hrs.**

May be taken up to three times if topics differ. Advanced graduate study in sociological topics:

- .01 Seminar in Deviance/Criminology
- .03 Seminar in Minorities/Stratification
- .04 Seminar in Social Institutions
- .05 Seminar in Demography
- .08 Seminar in Gerontology
- .09 Seminar in Interpretive Analysis
- .10 Seminar in Personal Relationships/Family
- .11 Seminar in the Sociology of Gender
- .12 Seminar in Community Sociology

**471 QUANTITATIVE RESEARCH DESIGN AND ANALYSIS****3 sem. hrs.**

An in-depth exploration of quantitative methods, both data collection techniques and computer analysis. Design of quantitative research involving theoretical and methodological aspects of sociological problems. Prerequisites: SOC 275 and 271, or equivalent.

**472 QUALITATIVE RESEARCH DESIGN AND ANALYSIS****3 sem. hrs.**

An in-depth exploration of qualitative methods, both data collection techniques and data analysis. Design of qualitative research involving theoretical and methodological aspects of sociological problems. Prerequisite: Consent of instructor.

**473 ADVANCED QUALITATIVE RESEARCH METHODS****3 sem. hrs.**

Design and implementation of a qualitative field research study, including obtaining observational and interview data, and analysis and report writing of qualitative data. Prerequisite: Consent of instructor.

**491 INTERNSHIP IN COLLEGE TEACHING****3 sem. hrs.**

Observation and teaching in the student's major area with other experiences appropriate to academic involvement at the college level. Offered in cooperation with the student's major department. Prerequisite: Graduate standing. Credit for the course is given in C&I (see C&I 491).

**498 PROFESSIONAL PRACTICE IN SOCIOLOGY****1-6 sem. hrs.**

Supervised professional experience relating to the student's educational plan approved by the Sociology Graduate Committee and supervising faculty. Refer to Index for General Courses. Prerequisite: Completion of 18 hours in the Sociology master's program.

**499 MASTER'S THESIS****1-6 sem. hrs.**

See Index for General Courses.

**Courses in Anthropology****306 REGIONAL AND AREA STUDIES****1-9 sem. hrs.**

Intensive on-site study of particular lands, environments, cultures, and peoples. Prerequisites: ANT 100 and 75 hours of consent of instructor required.

**374 INTRODUCTION TO MUSEUM STUDIES****3 sem. hrs.**

Examination of the history, organization, and administration of museums as well as methods of acquisition, preservation, and exhibition of artifacts.

**380 KEY CONCEPTS IN ANTHROPOLOGY****3 sem. hrs.**

Anthropological thought from historical, systematic, and applied viewpoints; emphasis on changing content, concepts, methods of the discipline. Prerequisites: ANT 180, 181, 182, 274, 281, 285, 286 or consent of instructor.

**381 ARCHAEOLOGICAL FIELD SCHOOL****1-9 sem. hrs.**

Field instruction in methods and techniques of archaeological survey, excavation, preparation and preservation of materials, and record keeping. Prerequisites: ANT 181 and 274 recommended. Materials charge optional.

**383 STUDIES IN SELECTED CULTURES****3 sem. hrs.**

Culture patterns of selected areas. Physical characteristics, history, social, political, intellectual life, cultural change of aboriginal people. Prerequisite: ANT 180.

**386 METHODS AND THEORY IN ARCHAEOLOGY****3 sem. hrs.**

Archaeological method and theory from 1800 to the present, emphasizing American archaeology. Prerequisites: ANT 274.

**387 ADVANCED TOPICS IN PHYSICAL ANTHROPOLOGY****3 sem. hrs.**

Intensive examination and analysis of current research questions and controversies in paleoanthropology, primatology and human adaptation studies. Prerequisites: 24 hours in ANT including 286, 288, and 290 or consent of instructor.

**388 HISTORICAL ARCHAEOLOGY****3 sem. hrs.**

Research methods of historical archaeology reviewed, and the principles that underlie the methods examined critically. Prerequisite: ANT 274.

**469 SEMINAR IN HISTORICAL ARCHAEOLOGY****3 sem. hrs.**

Intensive examination of current theoretical and methodological issues in historical archaeology. Prerequisite: ANT 388; graduate standing.

**481 ADVANCED ARCHAEOLOGICAL FIELD SCHOOL****3-6 sem. hrs.**

Advanced instruction in field methods and techniques that focus on excavation and surveying strategies, the development of scientifically sound research designs, field supervision, and the logistics of field project supervision. Prerequisite: ANT 381; graduate standing.

**488 ARCHAEOLOGICAL ETHICS AND LAW****3 sem. hrs.**

Intensive examination of current ethical issues involving the practice of archaeology and the nature and meaning of current laws regarding the excavation and study of archaeological sites and properties. Prerequisites: ANT 386; graduate standing.

**SPEECH PATHOLOGY AND AUDIOLOGY (PAS)**

**Chairperson:** Al Bowman. Office: Fairchild Hall 204.

**Graduate Program Director:** Linda Bowman.

**Graduate Faculty:** A. Beck, A. Bowman, M. Brunt, H. Harbers, M. Howard, J. Hufnagle, L. Hult, M. E. Moore, M. Ng, S. Prendergast, W. Smoski.

The department offers work leading to the M.A. or M.S. degrees with emphasis in speech pathology or audiology. In addition to the requirements of the Graduate School, the candidates for the master's degree with emphasis in speech pathology or in audiology must meet all the academic requirements and clinical practicum requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association. Copies of requirements for both Illinois

and national certification are available in the departmental office. The graduate programs are accredited by the Council on Academic Accreditation.

**Admission Requirements**

To be considered for admission to the program as a degree candidate requires an undergraduate grade point average of at least 3.00 computed on the last 60 semester hours of undergraduate work. The Graduate Record Exam is required, as are recommendations and a Student Profile. Forms are available in the department office. Because of a limited number of spaces in the graduate program, admission to the program may be deferred or denied.

**Program Requirements**

Students must maintain a cumulative grade point average of 3.00 in both major courses and overall to retain their degree candidate status and to be eligible for department practica. Enrollment by graduate students in the department's practica requires degree candidate status. In all instances, permission of the Clinic Director is needed for practicum enrollment, and enrollments may be restricted. External graduate practica may require special course work and will require a student to provide transportation to external settings arranged by the department.

A candidate for the Master's degree must spend at least one full term in residence in order to qualify for the degree. A full term is interpreted as one semester with a class load of eight or more hours, or a summer session with a class load of six or more hours.

Three program options are available in speech-language pathology, and three program options are available in audiology. Regardless of the option selected, the student must meet the academic and clinical practicum requirements for the Certificate of Clinical Competence (CCC) of the American Speech-Language-Hearing Association (ASHA). In order to meet the clinical practicum requirements for the CCC, the student must be prepared to accept responsibility for completing all clinical assignments necessary for generating the requisite clock hours ASHA has specified in designated clinical categories. The specific requirements for the program options follow:

**Speech-Language Pathology**

The comprehensive option requires 36 hours of approved graduate-level course work and a passing performance on an eight-hour written comprehensive examination at the end of graduate study. The following courses are required: PAS 401, 412, 413, 415, 416, 418, 419, 444, 445, and 449. Six hours of 400-level electives in speech-language pathology must be completed, and students must complete the practica necessary to meet the requirements for the Certificate of Clinical Competence.

The thesis option requires 36 hours of approved graduate-level course work and the completion of a Master's Thesis (PAS 499). The following courses are required: PAS 401, 412, 413, 415, 416, 418, 419, 444, 445, and 449. Six hours of 400-level electives in speech-language pathology must be completed, and students must complete the practica necessary to meet the requirements for the Certificate of Clinical Competence.

The 39-hour option requires 39 hours of approved graduate-level course work. The following courses are required: PAS



401, 412, 413, 415, 416, 418, 419, 444, 445, 449, and a two-hour Independent Study (PAS 400). Six hours of 400-level electives in speech-language pathology must be completed, and students must be completed, and students must complete the practica necessary to meet the requirements for the Certificate of Clinical Competence.

## Audiology

The comprehensive option requires 32 hours of approved graduate-level course work and a passing performance on an eight-hour written comprehensive examination at the end of graduate study. The following courses are required: PAS 401, 450, 452, 453, 455, 456-I, 456-II, and 457. In addition, the student must complete the practica necessary to meet the requirements for the Certificate of Clinical Competence.

The thesis option requires 35 hours of approved graduate-level course work and the completion of a Master's Thesis (PAS 499). The following courses are required: PAS 401, 450, 452, 453, 455, 456-I, 456-II, and 457. In addition, the student must complete the practica necessary to meet the requirements for the Certificate of Clinical Competence.

The 39-hour option requires 39 hours of approved graduate-level course work. The following courses are required: PAS 401, 450, 452, 453, 455, 456-I, 456-II, 457 and PAS 400 for at least two semester hours. In addition, the student must complete the practica necessary to meet the requirements for the Certificate of Clinical Competence. Students in the 39-hour option are required to complete an independent research project under the direction of a member of the graduate faculty.

## Professional Development Sequence in Social Aspects of Aging

Social Aspects of Aging Sequence is a multidisciplinary program designed to offer a limited number of academically and professionally oriented graduate experiences in aging. The sequence is housed in the Graduate School with advisement provided by the Speech Pathology and Audiology Department in cooperation with the departments of Sociology and Anthropology, Family and Consumer Sciences, and Psychology.

**Requirements for Admission to the Program:** Potential applicants must have earned a bachelor's degree (or equivalent) and meet the requirements for admission to the Graduate School as students-at-large. Credit for courses may be applied to a graduate degree program if approved by a specific graduate program. (See Policy of Graduate School.) Potential applicants may contact the Graduate School or specific department advisers for application forms and further information.

**Sequence Requirements:** 12 hours required, which includes 1) Seminar in Gerontology (3 hours) to be taken after at least six of the other required hours have been completed, and 2) 9 hours of electives from among the following gerontology related courses:

### Required Course (3 hours)

**Seminar in Gerontology (SOC 469.08)** Advanced treatment of gerontology including approximately one-third in overview of current gerontological issues plus selected topics in gerontology, e.g. Economics of Aging, Cross-Cultural Aspects of Aging, the Future of Aging.

### Elective Courses (9 hours)

**Health Aspects of Aging (HSC/FCS 394)** Characteristics of the aging process and factors influencing adaptation and the quality of living.

**Gerontological Psychology (PSY 304)** Psychological aspects of developmental transformations occurring during later adulthood. Application of psychology to problems of aging.

**Human Communication and the Aging Process (COM 331)** An examination of the particular communication needs of the aging and current research in the field.

**Families in Later Life (FCS 305)** Exploration of family dynamics in later life. Emphasis on developmental tasks, needs, and decision-making issues of aging family members.

**Experience in Gerontology:** Each student enrolled in the Sequence may negotiate with the Sequence Representative in the sponsoring department credit for 3 hours of "experience" in gerontology. This may include, but is not limited to, 400 Independent Study or 498 Professional Practice in any department/program which is relevant to the Sequence. Each "experience" is expected to involve some focused writing and analysis assignments. This experience should ordinarily be permitted after other courses are completed - at least *Seminar in Gerontology*. If the experience is of a "selected problems" type, a proposal should be approved by the Departmental Sequence Adviser no later than the 5th week of the semester.

## Courses

### 301 SPEECH SCIENCE 3 sem. hrs.

Elementary acoustical theory with application to the study of speech production and reception. Speech spectrography. Prerequisite: PAS 272.

### 310 NEUROBASIS OF SPEECH AND LANGUAGE 3 sem. hrs.

Study of the anatomy and physiology of the central and peripheral nervous systems and their role in the production of speech and the normal comprehension and expression of language. Prerequisite: PAS 272.

### 316 INTRODUCTION TO ORGANIC DISORDERS OF SPEECH 3 sem. hrs.

Speech disorders related to respiratory-laryngeal and articulatory-resonance systems. Diagnostic and remedial procedures. Prerequisite: PAS 301. Includes clinical experiences 5 hours, Type 1.

### 318 ORGANIZATION OF SPEECH, HEARING, AND LANGUAGE PROGRAMS 3 sem. hrs.

Professional attitudes, ethics, and organizations. Responsibilities in various professional settings. Program development and maintenance.

### 319 STUTTERING I 3 sem. hrs.

Theories of etiology, the nature of the disorder, profile of the person who stutters, and an introduction to intervention strategies. Includes clinical experiences 2 hours, Type 1.

**320 SPEECH AND LANGUAGE DEVELOPMENT****3 sem. hrs.**

Comprehensive study of acquisition of speech and language by children. Emphasis on first six years. Includes clinical experiences 5 hours, Type 1. Prerequisites: PAS 211; 112 or 115, or consent of instructor.

**321 LANGUAGE PATHOLOGY****3 sem. hrs.**

Introduction to the identification and remediation of language disorders in children and adolescents. Includes clinical experiences 5 hours, Type 1. Prerequisite: PAS 320.

**322 INTRODUCTION TO ORGANIC DISORDERS OF SPEECH II****3 sem. hrs.**

Speech and language disorders related to neurological pathologies. Diagnostic and remedial procedures. Includes clinical experiences 5 hours, Type 1. Prerequisite: PAS 272.

**331 DIAGNOSTIC PROCEDURES IN SPEECH PATHOLOGY****3 sem. hrs.**

Test materials and procedures for differential diagnosis of speech and language problems. Includes clinical experiences 5 hours, Type 1. Prerequisite: PAS 315, 321.

**349 HEARING SCIENCE****3 sem. hrs.**

Introduction to the concepts, theories and terminology required to form an understanding of auditory processing in the normal-hearing individual.

**350 INTRODUCTION TO AUDIOLOGY****3 sem. hrs.**

Principles of hearing measurement: sound, human ear, test methods, hearing losses, screening methods, test interpretation. Includes clinical experiences 4 hours, Type 1. Prerequisite: PAS 349.

**351 INTRODUCTION TO AURAL REHABILITATION TRAINING****3 sem. hrs.**

Principles of habilitation/rehabilitation of communicative disorders related to hearing impairment. Visual/auditory speech signals. Amplification: function/use. Includes clinical experiences 4 hours, Type 1. Prerequisite: PAS 350.

**360 AUGMENTATIVE COMMUNICATION FOR NON-SPEAKING PERSONS****3 sem. hrs.**

Introduction to assessment, intervention strategies, technology and empirical research relative to non-speaking individuals. Includes clinical experiences 5 hours, Type 1. Prerequisites: PAS 316, 322.

**401 METHODS OF RESEARCH IN SPEECH PATHOLOGY AND AUDIOLOGY****3 sem. hrs.**

Introductory review of research strategy and philosophy in speech pathology and audiology for professionals who will be consumers of research literature.

**408.10 BASIC PRACTICUM: AUDIOLOGY DIAGNOSTICS****1/2-1 sem. hr.**

Approximately 45 clock hours of supervised clinical practicum. Placement in external practicum sites may be included. May be repeated for maximum of 2 semester hours. Consent of Clinic Director required. Includes clinical experiences 45 hours, Type 7 & 8. Materials charge optional.

**408.20 BASIC PRACTICUM: AURAL REHABILITATION****1/2-1 sem. hr.**

Approximately 45 clock hours of supervised clinical practicum. Placement in external practicum sites may be included. May be repeated for maximum of 2 semester hours. Consent of Clinic Director required. Includes clinical experiences 45 hours, Type 7 & 8. Materials charge optional.

**408.30 ADVANCED PRACTICUM: AUDIOLOGY****1/2-3 sem. hrs.**

Approximately 45 clock hours of supervised clinical practicum. Placement in external practicum sites may be included. May be repeated for maximum of 10 semester hours. Consent of Clinic Director required. Materials charge optional.

**408.40 BASIC PRACTICUM: SPEECH-LANGUAGE PATHOLOGY****1/2-1 sem. hr.**

Approximately 45 clock hours of supervised clinical practicum. Placement in external practicum sites may be included. May be repeated for maximum of 2 semester hours. Consent of Clinic Director required. Includes clinical experiences 45 hours, Type 7 & 8. Materials charge optional.

**408.50 ADVANCED PRACTICUM: SPEECH-LANGUAGE PATHOLOGY****1/2-3 sem. hrs.**

Approximately 45 clock hours of supervised clinical practicum. Placement in external practicum sites may be included. May be repeated for a maximum of 10 semester hours. Consent of Clinic Director required. Includes clinical experiences 45 hours, Type 7 & 8. Materials charge optional.

**412 PHONOLOGICAL DISORDERS****3 sem. hrs.**

Review and synthesis of literature on articulatory phonetics, the acquisition and disruption of phonological processes, and the assessment and remediation of phonological disorders. Prerequisite: PAS 315.

**413 VOICE AND VOICE DISORDERS****3 sem. hrs.**

Review of the physiology of normal voice production and the study of the literature relating to etiologies, diagnosis, and management of voice disorders. Includes Clinical Experiences 4 hours, Type 1. Prerequisite: PAS 316.

**415 LANGUAGE DISORDERS****3 sem. hrs.**

Synthesis of the research literature on language disorders relating to their description, assessment and remediation. Prerequisite: PAS 321.

**416 LANGUAGE DISORDERS IN SCHOOL-AGE CHILDREN****3 sem. hrs.**

An examination of current literature on the impact of language disorders in school-age children, including principles and practices of assessment and intervention. Prerequisite: PAS 321.

**418 STUTTERING II****3 sem. hrs.**

Review of the phenomenology of stuttering and study of the literature pertaining to the evaluation and treatment of stuttering in children and adults. Includes clinical experiences 4 hours, Type 1. Prerequisite: PAS 319.

**419 APHASIA****3 sem. hrs.**

Provides the student with knowledge of past and current research and theory on the etiologies and diagnosis of, and therapies for, aphasia in children and adults. Prerequisite: PAS 322.

**444 NEUROPATHOLOGIES OF SPEECH****3 sem. hrs.**

Research and theory on the nature and types of neuropathologies that affect motor speech production. Particular emphasis given to assessment and intervention of dysarthria and apraxia in children and adults. Prerequisite: PAS 322.

**445 OROFACIAL ANOMALIES AND ASSOCIATED SPEECH DISORDERS****3 sem. hrs.**

Embryological growth and development and the etiologies, diagnostic, and habilitative procedures for orofacial anomalies with emphasis on cleft lip and palate. Includes clinical experiences. Prerequisites: PAS 316.

**447 COMMUNICATIVE DISORDERS ASSOCIATED WITH HEAD AND NECK CANCER****3 sem. hrs.**

The course is designed to give the student insight into the area of cancer of the head and neck and communication difficulties associated with management of the disease. Includes clinical experiences. Prerequisite: PAS 316.

**448 SEMINAR IN SPEECH SCIENCE****2-6 sem. hrs.**

Study of speech production and perception. May be repeated if content varies. Total credit earned cannot exceed 6 semester hours. Prerequisite: PAS 301 or consent of instructor.

**449 SEMINAR IN SPEECH-LANGUAGE PATHOLOGY****2-6 sem. hrs.**

Current topics in speech-language pathology selected by students in consultation with the instructor. May be repeated for a total of 6 sem. hrs. provided topics are not duplicated. Prerequisite: consent of instructor.

**450 ADVANCED AUDITORY TESTS****3 sem. hrs.**

The rationale, application, and interpretation of advanced testing procedures; evaluation of research in special tests. Prerequisite: PAS 350 and consent of instructor.

**452 AMPLIFICATION FOR THE HEARING IMPAIRED****3 sem. hrs.**

Hearing Aids: acoustical analysis methods, clinical evaluation procedures, and applications among hearing impaired children and adults. Prerequisite: PAS 351 and consent of instructor.

**453 AUDITORY FUNCTIONS AND DISORDERS****3 sem. hrs.**

Function of the auditory mechanism with reference to theories of hearing; examination of the etiology, loci, and effects of hearing pathology as it affects auditory function in adults. Prerequisite: PAS 350 and consent of instructor.

**455 HEARING DISORDERS IN CHILDREN****3 sem. hrs.**

A review and study of the literature in audiology and otology of the etiology, loci, and effects of pathology in the auditory system of children. Prerequisite: PAS 351 and consent of instructor.

**456 SEMINAR IN AUDIOLOGY****2-6 sem. hrs.**

Specific topics selected by the student with approval of the instructor, or assigned topics will be explored. In general, library sources will be employed; however, some experimental procedures may be approved. The student may repeat the seminar for credit provided that the subject matter is not duplicated and the total credit earned does not exceed six semester hours. Prerequisite: PAS 350 and consent of instructor.

**457 AUDIOLOGIC HABILITATION AND REHABILITATION****3 sem. hrs.**

Study of the clinical management of communication disorders arising from hearing impairment with emphasis on hearing aid management, research literature, and recent trends. Prerequisite: PAS 351 and consent of instructor.

**499 MASTER'S THESIS****1-6 sem. hrs.**

Students who register for one or more hours of PAS 499 are required to attend thesis seminar.

**WOMEN'S STUDIES (WS)**

**Director:** Valentine M. Moghadam. Office: Rachel Cooper 233. **Assistant Director and Academic Advisor:** Sandra D. Harmon. Office: Rachel Cooper 232.

**Note:** The Women's Studies Program is currently an undergraduate program that offers a minor (see Undergraduate Catalog for description of the requirements for the minor). The following are Women's Studies courses that may be taken for graduate credit.

**Courses****391 SEMINAR IN WOMEN'S STUDIES****3 sem. hrs.**

Detailed study of current selected topics. May be repeated if topic different. Advanced graduate study in topics such as women's history, global feminism, and women and development.

**400 INDEPENDENT RESEARCH IN WOMEN'S STUDIES****3 sem. hrs.**

Research paper or supervised readings on topic relevant to Women's Studies. Proposal signed by a faculty advisor and the Director or Assistant Director of Women's Studies required prior to registration. Refer to Index for General Courses.

# COLLEGE OF BUSINESS

**Dean:** Dixie Mills. Office: 316 Williams Hall.

The College of Business provides a student-centered learning environment to develop the business skills and appreciation for continuous learning necessary to succeed in a dynamic global economy. Our high quality programs develop ethical, knowledgeable, and technologically competent business professionals. We strive to further the University mission of providing a premier educational experience to students in our graduate programs.

The College of Business contains the departments of Accounting; Finance, Insurance and Law; Management and Quantitative Methods; and Marketing. The primary objective of the College of Business is to prepare undergraduate and graduate students for professional or managerial careers in business, education, government, industry, or not-for-profit organizations. The College supports the principle that education for these careers requires the assimilation of a basic common body of knowledge as well as opportunities for acquiring depth in appropriate fields. The College offers graduate programs leading to the Master of Business Administration, the Master of Professional Accountancy, and the Master of Science in Accounting. The College of Business faculty are involved in research, public service, and faculty professional development and maintain relationships with business, industrial and service organizations in the area. All eligible programs in the College of Business are accredited by AACSB - The International Association for Management Education, including separate accreditation for the Accounting programs.

## Master of Business Administration

**MBA Program Director:** Lee A. Graf. Office: 327 Williams Hall.

The Master of Business Administration (MBA) degree is a collegiate degree with courses offered in the departments of Accounting; Finance, Insurance and Law; Management and Quantitative Methods; and Marketing. The goal of the Illinois State MBA program is to prepare students for successful careers in positions of leadership in business and other organizations competing in domestic and international markets. The integrative curriculum is designed to provide a thorough understanding of the functional areas of business, to ensure that students develop an analytical framework for evaluation and decision making, to encourage them to apply that framework with a sense of integrity, and to strengthen interpersonal, leadership, and communication skills. The program strives to imbue graduates with an appreciation of the continuing challenges of globalization, of the legal and sociopolitical environments, and of expanding technology. The Illinois State MBA prepares graduates to manage these future challenges and opportunities successfully.

### Admission to the MBA Program

All University and Graduate School requirements for admission to a degree program apply, but the requirements for admission to the Master of Business Administration program are higher than those for the Graduate School. To be considered for admission, students must have earned a GPA of 2.75

or higher in the last 60 hours of undergraduate work. In addition to submitting a Graduate School application and official transcripts, all applicants must: 1) complete the MBA application; 2) have two letters of recommendation forwarded to the department; and 3) have an official Graduate Management Admission Test (GMAT) score submitted to the Admissions Office. International students must also submit an official TOEFL score report to the Admissions Office; a score of 600 or higher is required for admission to the program. Applicants will be evaluated by a review of overall qualifications as reflected in these credentials.

All of the 400-level courses in the College of Business have restricted enrollments and are not open to students-at-large. Opportunities for students-at-large to take undergraduate business courses are limited, and permission to register must be sought from the undergraduate Advising Center (301 Williams Hall). Such students may be required to furnish official transcripts which show the degree earned and the prerequisites for the courses in which the student is requesting permission to enroll.

Students may be admitted to the MBA program at any time during the academic year, with the exception of the two-week period immediately preceding the beginning of any academic semester. Applications received during one of these two-week periods will be considered for the subsequent semester. Preference is given to student applications received by March 1 for August admission, by October 1 for January admission, and by February 15 for summer admission. Students seeking graduate assistantship appointments for the Fall term should have completed and have on file in the MBA office applications both for admission and for the assistantship by no later than **March 15**. New graduate assistantship appointments for the Spring semester are rare; no appointments are made during the Summer session.

### Curriculum Requirements

The MBA degree assumes an undergraduate knowledge base in business and economics which students with undergraduate degrees in business will normally have acquired. Students with non-business undergraduate degrees may have to complete foundation courses before enrolling in the MBA core courses. Specific requirements will be determined by the MBA Program Director. The responsibility for demonstrating prior academic coverage of the material, at the appropriate level, rests with the student, and should be completed at least one month prior to the beginning of the first semester of course work. Students with a non-business undergraduate degree should expect to complete some or all of the following **foundation courses**:

- ECO 401 Survey of Economic Principles
- ACC 401 Survey of Accounting Principles
- MQM 402 Management Fundamentals
- MKT 403 Marketing Concepts
- MQM 406 Quantitative Methods (prerequisite: MAT 104 or equivalent)
- FIL 404 Theory of Managerial Finance (prerequisite: ACC 401 or equivalent)
- FIL 405 Legal Aspects of Business Decisions

In addition to any foundation courses required based on an individual's previous academic work, all MBA candidates must

complete 36 semester hours comprised of core and elective courses. This includes the following nine required **core courses** (27 semester hours):

- MBA 412 Contemporary Business Perspectives and Leadership Skills (should be taken in the first semester after the completion of MQM 402 and MKT 403 and FIL 405, the latter of which may be taken concurrently with MBA 412).
- ACC 450 Management Accounting (Prerequisite: ACC 401 or 6 hours of accounting)
- ACC 468 Management Information Systems: Organizational and Technological Issues (Prerequisite: ACC 166 or demonstrated competency in microcomputer tools)
- FIL 440 Financial Management (Prerequisites: MQM 406 and FIL 404 or equivalents)
- MKT 430 Advanced Marketing Management (Prerequisites: MKT 403 and MQM 406 or equivalents)
- MQM 427 Operations and Quality Management (Prerequisite: MQM 406 or equivalent) OR MQM 415 Advanced Quantitative Methods
- MQM 421 Analysis of Organizational Behavior (Prerequisite: MQM 402 or equivalent)
- MQM 485 Business Problems and Policy (Prerequisites: MQM 421, MKT 430, FIL 440, and MQM 427 or 415, either of the latter of which may be taken concurrently with MQM 485)
- MQM 497 Research Methodology (Prerequisite: MQM 406). This course must be completed within the first eighteen hours of the core courses.

Students who have completed 12 or more semester hours in a required core area may substitute a 400-level elective in that area for the required core course.

In addition to the core courses, each candidate must complete nine (9) semester hours of 400-level graduate business elective courses. (Graduate courses at the 300-level may not be taken to fulfill the MBA elective requirements). In consultation with an MBA Advisor, students are able to choose from among a wide offering of elective courses to design a plan of study. The choice should be congruent with each student's goals. Several elective concentrations are available for the student with a specific career focus. These include: Financial Management; Human Resource Management; Insurance; International Business; Marketing; Management: Policy and Organization; and Agribusiness, Arts Management, and Information Systems.

Students without relevant full-time experience are encouraged to consider a professional practice internship as an elective choice; up to 3 credit hours of professional practice courses (498 in the FIL, MKT, and MQM departments) may be used in the Plan of Study toward the degree. A thesis may be substituted for up to six hours of elective course work. Please refer to the thesis section elsewhere in the catalog for Graduate School policies on thesis work.

#### Course Limitations

Master of Business Administration candidates may not include the following in their Plan of Study to meet the 36 semester hours required for the MBA: ECO 401; MKT 403; MQM 402, 406; FIL 404, 405; ACC 401; more than three (3) credits earned in any 498 course(s); more than six (6) credits earned in any 400-level courses; and 300-level graduate courses. All core and elective courses must be completed within six years.

#### Courses

Descriptions of courses leading to the MBA degree are found under the Departments of Finance, Insurance and Law; Management and Quantitative Methods; Marketing; Accounting; and MBA (MBA 412).

#### Repetition of Courses in the MBA Program

A student may register officially for an MBA course (foundation, core or elective) only twice. A student who completes a course or drops a course after the tenth day enrollment report may officially enroll in the same course only one additional time.

#### Courses

#### 412 CONTEMPORARY BUSINESS PERSPECTIVES AND LEADERSHIP SKILLS 3 sem. hrs.

Interdisciplinary course to provide students with an integrative perspective of contemporary business environments and development of key professional competencies. This course is to be taken in the first semester after the completion of MQM 402, MKT 403, and FIL 405, the latter of which may be taken concurrently with MBA 412.

## ACCOUNTING (ACC)

**Chairperson:** James Moon. Office: Stevenson Hall 435A.

**Graduate Program Director:** Max Rexroad.

**Graduate Faculty:** G. Ames, C. Craig, T. Craig, W. Duffy, L. Leinicke, D. Lindberg, D. Love, M. McClure, J. Moon, J. Ostrosky, D. Patten, K. Razaki, M. Rexroad.

#### Mission Statement

The mission of the Department of Accounting is to provide high-quality, student-centered educational programs for students preparing for professional careers in accounting and information systems; to support research and other scholarly activities consistent with these programs; and to perform service activities for the Department, the College of Business, the University, and other organizations consistent with these programs. In addition, our mission includes establishing relationships with outside organizations that support our programs, students, and faculty. Providing introductory and other courses in accounting and information systems to non-major students, as a service to other departments within the College and University, is also fundamental to our mission.

The goals of the Department of Accounting are as follows:

1. Our first priority is to develop student potential through high quality pedagogy and educational experiences.
2. Our second priority is to perform applied, basic, and instructional research that complements our educational programs.
3. Our third priority is to participate in internal and external service activities which complement our educational programs and research activities, and build partnerships with key constituencies.

#### Master of Science in Accounting

The primary objective of the Master of Science in accounting program is to provide candidates preparing for professional careers in accounting a greater breadth and depth in accounting education than is possible in a baccalaureate or Master of Business Administration program.

The Master of Science in accounting degree builds upon the broad framework of the undergraduate degree in accounting. Graduate accounting courses emphasize study of current accounting literature, critical thinking, case studies, accounting theory, and written and oral communication. Class sizes are designed to be small to encourage interaction between the professor and each student.

The Master of Science in accounting provides a broad base in accounting theory, current accounting research, and management information systems. Beyond this base the student is allowed to tailor course work in accounting, business, and behavioral science to meet his/her educational and professional goals. Under the guidance of the program director, the student may develop a program to prepare for an accounting career in public accounting, industry or government.

### Admission Requirements

All University and Graduate School requirements for admission to a degree program of the Graduate School at Illinois State University will apply. Graduate students who have been admitted to the University will be admitted to the Master of Science in accounting degree program based upon their performance on the Graduate Management Admission Test (GMAT), on their previous academic performance, and other evidence of the student's ability to successfully complete the program.

Before entering the program students will normally have had a Bachelor of Science in accounting degree based upon the study of the Financial Accounting Standards Board's pronouncements, the AICPA Statement on Auditing Standards and the Internal Revenue Code. Otherwise, there may be deficiencies as determined by the department.

International students are required to submit a TOEFL score of 600 or more with their application for admission.

### Curriculum Requirements

All candidates must complete 33 semester hours and a comprehensive examination administered near the end of the final semester of course study.

### Required Courses

ACC 430 Financial Accounting Theory.....	3 sem. hrs.
ACC 468 Management Information Systems:	
Organizational and Technological Issues .....	3 sem. hrs.
ACC 497 Introduction to Research	
Methodology in Accounting .....	3 sem. hrs.
400-Level Accounting Electives chosen	
from ACC 431, 434, 435 and 439 .....	6 sem. hrs.
Total .....	15 sem. hrs.

### Elective Courses

Accounting: 300 or 400 level courses .....	3-12 sem. hrs.
BTE, FIL, MQM or MKT: 300 or 400 level .....	3-12 sem. hrs.
Behavioral Science: 300-400 level .....	3-6 sem. hrs.
Total .....	18 sem. hrs.

All 300-level courses must be approved in advance by the department. A minimum of 18 semester hours must be taken at the 400 level and a minimum of 9 semester hours must be taken outside the accounting discipline.

### Repetition of Courses in the Master of Science in Accounting Program

A student can register officially for any undergraduate deficiency or graduate level course only twice. That is, if a student

completes a course, or drops a course after the tenth-day enrollment report, he or she may officially enroll in the same course only one additional time.

## Integrated Bachelor of Science (B.S.) Master of Professional Accountancy (M.P.A.)

Degrees offered: B.S. and M.P.A.

The Integrated B.S./M.P.A. Degrees program is primarily oriented toward preparation for careers in professional accountancy. This program is designed to meet the formal requirements for a student to sit for the Certified Public Accountant (CPA) examination. The B.S./M.P.A. program is strongly recommended for students interested in a plan of study designed to integrate accounting, technology, information systems, and eligibility for the CPA examination. The 150-hour B.S./M.P.A. program generally includes 39 hours of graduate course work. Successful completion of the integrated program will culminate by granting simultaneously both B.S. and M.P.A. degrees. The B.S./M.P.A. integrated program is designed for students wishing to complete both degrees at Illinois State University. The program is not designed to admit students who have already completed a bachelor's degree. Students must successfully apply for continuance in the B.S./M.P.A. program in their junior year (after 60 semester hours). Graduate admission would take place after the student has completed approximately 90 hours. Admission timing is very important to successfully complete this program so students should regularly consult with their Accounting undergraduate or graduate advisor.

### Major in Accounting

Students selecting the Integrated B.S./M.P.A. Degrees program must complete ACC 131, 132, 166, 230, 231, 232, 233, 235, 260, 261, 263, 368, 430, 468, 472, 482, 497; MQM 240; FIL 208, 240, 375; MKT 230; MQM 100, 220, 227, 385; ECO 105; MAT 121 or 145. NOTE: MAT 120 is a prerequisite for MAT 121.

Also required are 9 hour of Accounting electives, 6 hours chosen from ACC 431, 434, 435, 439, or 498, and 3 additional hours chosen from ACC 330, 332, 334, 336, 337, 340, 431, 434, 435, 439, or 498. In addition, students would select 6 additional hours of Accounting or business electives.

Note: Students who wish to enhance their chances of success on the CPA examination should include in their plan of study the following advanced accounting courses ACC 330, 334, 336, 337.

**Requirements for CPA Examination:** Academic requirements to sit for the CPA examination in Illinois include (1) 150 semester hours of college course work, and (2) a baccalaureate or higher degree include at least 24 semester hours in accounting at the undergraduate and/or graduate level with at least one course each in financial accounting, auditing, taxation, and management accounting and at least 24 semester hours in business courses (other than accounting) at the undergraduate and/or the graduate level.

### Courses

Normally, the following courses will not count toward an M.S. in accounting: ACC 401 and 450.

**330 ACCOUNTING FOR NON-PROFIT ENTITIES****3 sem. hrs.**

Examination of accounting and financial reporting principles for nonprofit entities including state and local governmental units, colleges, hospitals, and other nonprofit organizations. Prerequisites: ACC majors only. ACC 231 with a minimum grade of C.

**332 ADVANCED MANAGERIAL ACCOUNTING****3 sem. hrs.**

A study of advanced decision models for managerial planning and control. Topics covered include cost behavior and regression analysis, transfer pricing, operations research techniques, accounting systems and internal control. Behavioral and ethical concepts in management accounting are examined. Prerequisites: ACC majors only. ACC 230 with a minimum grade of C.

**334 ADVANCED TAX****3 sem. hrs.**

Study of concepts and issues associated with corporate, partnership, estate and gift taxation. Overview of tax research techniques also provided. Prerequisites: ACC 233 or consent of department chairperson.

**336 ADVANCED AUDITING****3 sem. hrs.**

In-depth analysis of selected advanced topics in auditing, including professional auditing standards, planning, evidence, internal control, statistical sampling, EDP auditing, reporting, integrative audit case, operational auditing. Prerequisite: ACC 235. ACC majors only.

**337 ADVANCED FINANCIAL ACCOUNTING****3 sem. hrs.**

A study of advanced accounting topics with specific emphasis on business combinations and consolidated financial statements. Other topics include partnership accounting, international operations, branch accounting, segment reporting and interim statements. Prerequisite: ACC 232. ACC majors only.

**340 INTERNATIONAL ACCOUNTING****3 sem. hrs.**

Examines (1) similarities and differences of accounting principles and procedures between the United States and other countries and efforts at standardizing accounting internationally, and (2) accounting for multinational entities, including consolidation of foreign subsidiaries, evaluation of investment projects, and performance evaluation of foreign operations. Prerequisite: ACC 132. Business majors only.

**362 ADVANCED BUSINESS SYSTEMS ANALYSIS****3 sem. hrs.**

The analysis, design, development, and implementation of a complete business information system. Directed project approach with formal presentations at the conclusion of each project phase. Prerequisites: ACC 261 and 366.

**363 ADVANCED ACCOUNTING INFORMATION SYSTEMS****3 sem. hrs.**

Study of advanced systems concepts as they relate to the profession of accounting. Selected advanced topics may include computer assisted auditing techniques, application of database technology as an alternative to traditional method of accounting, design and evaluation of internal controls in a computer-based accounting system. Prerequisites: ACC 260 and 263.

**366 ADVANCED BUSINESS DATA PROCESSING****3 sem. hrs.**

Advanced study in the development of computer programs and processing techniques required for business information systems. Systems of programs are developed for both mainframe and microcomputer applications. Prerequisites: ACC 266 or ACS 272. Not for credit if had ACS 372.

**368 DEVELOPING BUSINESS FUNCTION-BASED SYSTEMS****3 sem. hrs.**

Advanced study in the application and development of modern computer programs for business work-group and individual employee information systems. Students will design and develop a comprehensive application appropriate for a functional area of business using the approaches and tools of the consultant. Prerequisites: ACC 260 and 261.

**370 MANAGEMENT INFORMATION SYSTEMS****3 sem. hrs.**

Management information systems with emphasis on the responsibilities of management in the creation, control, and utilization of the information systems which support managerial decision-making. Prerequisites: MQM 220, ACC 131, 166, MKT 230 and FIL 240. ACC 261 or equivalent strongly recommended.

**375 PROFESSIONAL PROBLEMS****3 sem. hrs.**

An intensive study of contemporary accounting problems with a strong orientation toward the preparation for the CPA and CMA examinations. Prerequisites: 24 hours of ACC. ACC 330, 334, 336, 337 or consent of department chairperson. Concurrent enrollment allowed for only two of ACC 330, 334, or 336. Overall GPA of 2.8. Concurrent enrollment in FIL 375 recommended.

**382 CURRENT ISSUES IN BUSINESS INFORMATION SYSTEMS CONSULTING****3 sem. hrs.**

Integration of key business information systems concepts necessary for successful business consulting. Management issues relating to the consulting practice will be stressed. Significant use of oral and written reports. Prerequisites: ACC 362, 366 or 368.

**401 SURVEY OF ACCOUNTING PRINCIPLES****3 sem. hrs.**

This course compresses into a single semester material ordinarily covered in the first two semesters of elementary accounting. Enrollment is limited to graduate students who have had no more than one semester of previous study in accounting. The course cannot be presented for graduate credit by a degree candidate in the ACC or MBA graduate programs.

**430 FINANCIAL ACCOUNTING THEORY****3 sem. hrs.**

This course is a study of the theoretical and conceptual foundations of financial reporting standards, including an overview of the development of financial accounting and the environment in which it operates. Current accounting practices are analyzed and evaluated in the context of the theoretical framework. Prerequisite: 18 semester hours of accounting including ACC 232.

**431 CURRENT ISSUES IN ACCOUNTING****3 sem. hrs.**

A variable content course giving consideration to current issues and/or controversies in the theory and practice of accounting. Students will investigate independently and as a group problems of special interest in various aspects of accounting. Prerequisite: 18 semester hours of accounting including ACC 232.

**434 FEDERAL TAXES AND MANAGEMENT DECISIONS****3 sem. hrs.**

Study of tax issues associated with common business transactions, from a management perspective. Prerequisites: 18 semester hours of accounting or ACC 450 and FIL 440.

**435 AUDITING ISSUES AND CASES****3 sem. hrs.**

Application of current auditing standards to auditing cases emphasizing decision making under uncertainty and effective communication skills. Consideration is given to ethical issues facing accountants, current auditing theory, application of current accounting standards to auditing cases, international accounting standards, international auditing guidelines and statements, and current issues related to the practice of auditing. Prerequisite: 18 semester hours of accounting including ACC 232 and 235.

**439 MANAGERIAL ACCOUNTING THEORY****3 sem. hrs.**

In-depth investigation of theories that underlie current managerial accounting practice. Heavy emphasis on the impact of research on the development of modern cost techniques. Prerequisite: 18 semester hours of accounting including ACC 230, or equivalent.

**450 MANAGEMENT ACCOUNTING****3 sem. hrs.**

Designed for non-accounting majors. Emphasis on the interpretation and use of accounting data. Prerequisite: ACC 401 or 6 hours of accounting or consent of department chairperson. The course cannot be presented for graduate credit by a degree candidate in the ACC program.

**468 MANAGEMENT INFORMATION SYSTEMS: ORGANIZATIONAL AND TECHNOLOGICAL ISSUES****3 sem. hrs.**

Analyzes business information systems components (people, procedures, hardware, software) from organizational and technological perspectives. Cases are used to explore the relationships between organizational and technological issues. Prerequisites: ACC 166, demonstrated competency in microcomputer tools or consent of department chairperson.

**472 THE PROFESSIONAL ACCOUNTANT AS A MANAGER OF INFORMATION SYSTEMS****3 sem. hrs.**

The objective of this course is to cover the concepts an accountant needs in the role as a manager of information systems. Prerequisites: ACC 261 and 263 or equivalent.

**482 BUSINESS INFORMATION SYSTEMS CONSULTING****3 sem. hrs.**

Integration of key business information systems concepts necessary for successful business consulting. Issues relating to consulting practices of the professional accountant will be stressed. Significant use of oral and written reports. Prerequisites: ACC 261, 368, 468, or equivalent.

**497 INTRODUCTION TO RESEARCH METHODOLOGY IN ACCOUNTING****3 sem. hrs.**

Examines (1) the methods of conducting theoretical research currently in use in accounting, with particular emphasis on empirical research, (2) the methods of conducting practical research in accounting, and (3) reporting the results of research. Prerequisites: 18 sem. hrs. of ACC including ACC 232 and MQM 240 or its equivalent, or consent of department chairperson.

**498 PROFESSIONAL PRACTICE: INTERNSHIP IN ACCOUNTING****1-3 sem. hrs.**

On-the-job professional accounting or BIS experience with a sponsoring commercial firm or government organization. Prerequisite: Cumulative GPA of 3.2; 21 hours of ACC; consent of internship director.

**FINANCE, INSURANCE AND LAW (FIL)****Chairperson:** Charles McGuire. Office: Williams Hall 328.**Graduate Faculty:** J. Carson, S. Chang, G. Flanigan, E. Gilbert, T. Howe, H. Kang, D. Kruse, D. Loy, C. McGuire, D. Mills, G. Naidu, E. Norton, W. Scott, J. Solberg, J. Trefzger, C. Varner.

Description and requirements for the Master of Business Administration degree are listed under the College of Business.

**Courses****311 GOVERNMENT REGULATION OF BUSINESS****3 sem. hrs.**

Analysis of governmental legal and regulatory activity as it applies to business. Prerequisites: FIL 208.

**312 INTERNATIONAL BUSINESS LAW****3 sem. hrs.**

Case study in international business law. Jurisdiction and application of foreign law, international regulation of economic activities, and issues of comparative law. Prerequisite: FIL 208.

**340 SHORT-TERM FINANCIAL MANAGEMENT****3 sem. hrs.**

Analysis of working capital management; cash budgeting; financial analysis and planning; short-term financing decisions. Prerequisite: FIL 240 or equivalent. Business majors only.

**343 SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT****3 sem. hrs.**

Characteristics of financial assets and markets; evaluation of securities; selecting and combining securities into portfolios; portfolio models and measurement of portfolio performance. Prerequisite: FIL 240 or equivalent, 242. BUS majors only.

**344 INTERNATIONAL FINANCIAL MANAGEMENT****3 sem. hrs.**

Financial management of multinational corporations, including balance of payments, foreign exchange markets and international money and capital markets. Prerequisite: FIL 240 or equivalent. BUS majors only.

**357 REAL ESTATE APPRAISAL****3 sem. hrs.**

Recent and traditional appraisal techniques. Theory and methodology of market value determination for residential and commercial real estate. Prerequisites: FIL 260. Business majors only.

**360 REAL ESTATE INVESTMENT AND FINANCE****3 sem. hrs.**

Decision-making analysis in real estate investment and financing. Emphasis on financial leverage, cash flow analysis, taxation, risk and mortgages. Prerequisite: FIL 240 and 260 or consent of instructor.



**380 SEMINAR IN THE LEGAL ENVIRONMENT OF BUSINESS****3 sem. hrs.**

Selected topics in law and its relationship to business. Topics may include new developments in public and private law as it relates to business. May be repeated for credit with consent of instructor. Consent of department chair required.

**404 THEORY OF MANAGERIAL FINANCE****2 sem. hrs.**

This course compresses into eight weeks materials that ordinarily would require one or two semesters of undergraduate course work in business finance and financial markets. It includes financial theory of the firm including the economic and institutional environment, working capital management, sources and uses of funds, capital structure, and budgeting. Prerequisites: ACC 401 or equivalent; admission to a graduate business program. The course cannot be taken for credit in the ACC or MBA graduate programs.

**405 LEGAL ASPECTS OF BUSINESS DECISIONS****2 sem. hrs.**

An overview of the legal environment of business and the American legal system. Designed for MBA students not receiving their undergraduate degree within the past five years and not having an American legal environment course or equivalent. Prerequisite: Admission to a graduate business program or consent of the department chairperson. Cannot be presented for credit in the ACC or MBA programs. Formerly FIL 410.

**411 CORPORATE LAW****3 sem. hrs.**

The law relating to corporations and other business organizations, including formation and management of corporations, corporate finance, securities law and antitrust.

**412 INTERNATIONAL AND COMPARATIVE BUSINESS LAW****3 sem. hrs.**

An overview of the law and environment of International Business Operations including competitive business law of selected world regions.

**413 EMPLOYMENT LAW****3 sem. hrs.**

An in-depth review of anti-discrimination statutes and other employment related statutes and laws that impact the workplace.

**419 SEMINAR IN THE LEGAL ENVIRONMENT OF BUSINESS****1-4 sem hrs.**

Topics may include aspects of domestic and international business law and the social, ethical, political and regulatory influences impacting business organizations. May be repeated if different material is covered. Prerequisite: FIL 410.

**440 FINANCIAL MANAGEMENT****3 sem. hrs.**

Analysis of financial problems of business enterprises and the formulation of financial policies. Financing of current operations and long-term capital needs, income management and expansion policies. Includes case studies. Prerequisites: MQM 406, FIL 404 or equivalents.

**441 ADVANCED FINANCIAL INSTITUTIONS AND MARKETS****3 sem. hrs.**

A critical study of sources of funds and investment management of these funds; scope and changes in financial markets; recent policy changes and problems in financial management of financial institutions; changes being proposed in regulations affecting structure and functions of the intermediaries and the nature of financial markets. Prerequisite: FIL 440.

**442 INVESTMENT MANAGEMENT****3 sem. hrs.**

A strategic and operational study of investments from an analytical perspective including the planning, direction, and evaluation of investment programs. Prerequisite: FIL 440.

**445 ADVANCED CORPORATE FINANCE****3 sem. hrs.**

Major issues in corporate finance focusing on applications of finance theories to real business problems. Prerequisite: FIL 440. MBA students only.

**449 SEMINAR IN FINANCE****1-4 sem. hrs.**

Topics will vary with needs and interests of students and faculty. May be taken more than once if different material is covered. Offered once per year. Prerequisite: FIL 440.

**454 SEMINAR IN INSURANCE****1-4 sem. hrs.**

Topics may include risk management, commercial and individual property and liability insurance, life and health insurance, financial and estate planning and new developments. May be repeated if different material is covered. Prerequisite: FIL 440 or consent of instructor.

**499 MASTER'S THESIS****1-6 sem. hrs.**

## MANAGEMENT AND QUANTITATIVE METHODS (MQM)

**Chairperson:** John Lust. Office: 329 Williams Hall.

**Graduate Faculty:** J. Bantham, S. Chitgopekar, V. Devinatz, M. Downes, M. Dumler, F. Fazel-Sarjui, D. Fitzgibbons, C. Graeff, L. Graf, M. Hemmasi, J. Howard, J. Lust, J. Mohammed, K. Newgren, T. Palmer, P. Pomerence, R. Radhakrishnan, R. Ringer, D. Robinson, G. Russ, G. Salegna, I. Varner, M. Winchell.

Description and requirements for the Master of Business Administration degree are listed under the College of Business.

### Courses

**300 INTERMEDIATE BUSINESS STATISTICS****3 sem. hrs.**

Techniques used in modern business analysis. Topics include multiple regression and analysis of variance for applications in management, marketing, finance and accounting. Prerequisite: MQM 100, MAT 121 or equivalent.

**323 HUMAN RESOURCES MANAGEMENT****3 sem. hrs.**

Principles and procedures relating to human resource management, including staffing, appraisal, training, compensation, and other programs for business and other organizations. Prerequisite: MQM 220.

**324 INDUSTRIAL RELATIONS MANAGEMENT****3 sem. hrs.**

Managing employment relations and work conditions. Emphasis on negotiating, administering labor agreements, and impact of collective bargaining on managerial practice. Prerequisites: MQM 220.

**341 CORPORATE COMMUNICATION****3 sem. hrs.**

Analysis of communications unique to professional employment. Emphasis on research and writing skills for effective communication. Prerequisite: MQM 220 and 240. Formerly BEA 341.

**349 BUSINESS IN A MULTI-CULTURAL ENVIRONMENT****3 sem. hrs.**

Business operations in a multi-cultural environment. Relationship between the business process and social attitudes, values, ideologies, and customs with special emphasis on Asia, Latin America, and the Middle East. Formerly BEA 345.

**353 STRATEGIC HUMAN RESOURCE PLANNING AND MANAGEMENT****3 sem. hrs.**

Strategic human resource planning as the base for organizational human resource decisions and programs, and management of personnel development in organizations. Prerequisite: MQM 323.

**354 COMPENSATION MANAGEMENT****3 sem. hrs.**

Compensation subsystem as a vital component in establishing a workplace system that stimulates employee performance. Prerequisite: MQM 323.

**356 FOUNDATIONS OF HUMAN RESOURCE DEVELOPMENT****3 sem. hrs.**

Examines the theoretical foundations of HRD and includes employee orientation, technical training, coaching, career development, management development, and diversity training. Formerly BEA 371.

**357 PROGRAM DESIGN AND DEVELOPMENT IN HUMAN RESOURCE DEVELOPMENT****3 sem. hrs.**

Focuses on methods, materials, and technology applied to the design, selection, and implementation of training programs for business and non-profit organizations. Formerly BEA 372.

**384 MANAGERIAL PLANNING AND DECISION MAKING****3 sem. hrs.**

A consideration of managerial decision making in organizations. Specific emphasis on strategic, program, and operational level planning decisions, techniques, and systems. Prerequisites: MQM 220; MQM 221 or concurrent registration.

**402 MANAGEMENT FUNDAMENTALS****2 sem. hrs.**

Principles of management and organizational theories with emphasis on organizational structures, management functions, behavior, and interpersonal communications. This course is for students without previous management course work. Prerequisite: Admission to a graduate business program or consent of the department chairperson. Cannot be presented for credit in the ACC or MBA programs.

**406 QUANTITATIVE METHODS****3 sem. hrs.**

This course compresses into a single semester materials that ordinarily would require two semesters of undergraduate course work in business statistics and management science areas. It includes concepts and techniques of quantitative (particularly statistical) methods useful for guiding business decisions and evaluating sample data. Prerequisites: MAT 104 or equivalent; admission to a graduate business program. Cannot be presented for credit in the ACC or MBA graduate programs.

**407 PRODUCTION AND OPERATIONS MANAGEMENT****3 sem. hrs.**

This course compresses into a single semester materials that ordinarily would require two semesters of undergraduate course work in the production and operations management areas. It includes concepts, tools, and techniques involved in the planning and control of production processes. Prerequisites: MQM 406 or equivalent; admission to a graduate business program. Cannot be presented for credit in the ACC or MBA graduate programs.

**415 ADVANCED QUANTITATIVE METHODS****3 sem. hrs.**

A study of the quantitative model building approach to managerial decisions. Topics include mathematical programming, network analysis, decision making under uncertainty, and waiting line analysis. Emphasis is placed on problem recognition and interpretation of solutions. Prerequisite: MQM 406 or equivalent.

**416 ADVANCED MANAGERIAL BUSINESS COMMUNICATION****3 sem. hrs.**

Written communications to business organizations, the impact of political climates, ethical considerations on effective external and internal reports, study of critical thinking and logic in writing business reports. Materials charge optional. Formerly BEA 416.

**420 ORGANIZATION THEORY****3 sem. hrs.**

Organization theory and design with emphasis on environmental, technological, power, contextual, and internal variables affecting organizational design and performance. Prerequisite: MQM 402 or equivalent.

**421 ANALYSIS OF ORGANIZATIONAL BEHAVIOR****3 sem. hrs.**

A study of how people in organizations respond to managerial and organizational practices, using a systems orientation to analyze how environmental factors influence organizational practices and climate. Topics include reactions of people to structure and control, problems of motivation and performance, resolution of inter-departmental conflicts, adaptation to change. Prerequisite: MQM 402 or equivalent.

**423 ADVANCED HUMAN RESOURCES  
MANAGEMENT****3 sem. hrs.**

Advanced study of selected contemporary issues in human resources management. Emphasis on critical investigation of current personnel research and practices. Prerequisite: MQM 421.

**426 SEMINAR IN MANAGEMENT****3 sem. hrs.**

Significant issues related to the management of people as well as management functions or processes. Topics include: behavioral science and management, employee motivation, leadership, organizational communication, interorganizational conflict, organization development, change, planning, objectives, control, values, ethics, social responsibility, and human resource management. May be taken more than once if different material is covered. Offered irregularly. Prerequisite: MQM 421.

**427 OPERATIONS AND QUALITY MANAGEMENT****3 sem. hrs.**

Course focus is on strategies, concepts, and tools for management of quality and the core function of producing goods and services. Prerequisite: MQM 406 or equivalent.

**485 BUSINESS PROBLEMS AND POLICY****3 sem. hrs.**

An integrating course analyzing the firm in its environment with emphasis on formulation of policies and strategies and application of concepts through case studies and/or simulation exercises integrating all functional areas. Prerequisites: MQM 421, MKT 430, FIL 440, and MQM 427 or 415, either of the latter of which may be taken concurrently with MQM 485.

**497 RESEARCH METHODOLOGY****3 sem. hrs.**

The procedure, techniques, and application of research methods in business. Problem analysis, measurement techniques, experimental design considerations, and report presentation. Analytical methods, including classical hypothesis testing, nonparametric tests, analysis of variance, linear and multiple regression, and multivariate statistics. Prerequisites: MQM 406 with a grade of B or better or proficiency examination in statistics.

**498 PROFESSIONAL PRACTICE: INTERNSHIP/  
COOPERATIVE EDUCATION IN  
MANAGEMENT OR QUANTITATIVE METHODS****1-3 sem. hrs.**

Practical experience by employment in a position involved with the management of business activities, including the analysis of business decision situations. Prerequisite: MBA majors with 12 credits or more of core courses; cumulative graduate GPA of 3.2 or higher; MQM 421 or equivalent; and consent of department chairperson.

**499 MASTER'S THESIS****1-6 sem. hrs.****MARKETING (MKT)**

**Chairperson:** Tim Longfellow. Office: 325 Williams Hall.

**Graduate Faculty:** J. Attaway, K. Celuch, J. Cox, Jr., S. Goodwin, T. Haynes, M. Humphreys, W. Lesch, T. Longfellow, L. Showers, R. Singley, M. Slama, S. Taylor, D. Vorhies, M. Williams.

Description and requirements for the Master of Business Administration degree are listed under the College of Business.

Please note: The Department of Marketing staffs and offers graduate courses in Marketing (MKT) and in Business Teacher Education (BTE).

**Marketing Courses (MKT)****329 PURCHASING POLICIES AND PROCEDURES****3 sem. hrs.**

Purchase of materials, supplies, and equipment for industry, government, and other institutions. Organization for purchasing, internal requisitioning, and stock control. Significant case analysis is typical. Prerequisites: MKT 230.

**333 ADVERTISING MANAGEMENT****3 sem. hrs.**

Evaluation of elements for the effective development, implementation, and management of advertising campaigns. Experience in making decisions will be gained via cases, campaign development exercises, and/or computer simulation. Prerequisites: MKT 230, 231, 232, 233, or equivalent.

**334 SALES MANAGEMENT****3 sem. hrs.**

Theory, principles, and practices of sales force administration for manufacturing, wholesaling, and service enterprises. Topics include recruiting, training, compensation, and performance appraisal. Computer simulation gaming is typical. Prerequisite: MKT 230, 234.

**335 RETAILING MANAGEMENT AND PROMOTION****3 sem. hrs.**

Management and operation of retail firms. Emphasis on location analysis, pricing, inventory control, and promotion. Experiential assignments are typical. Prerequisite: MKT 230.

**337 BUSINESS-TO-BUSINESS MARKETING****3 sem. hrs.**

Focuses upon the scope and nature of marketing in an industrial or business-to-business context. A managerial decision making framework is utilized. Prerequisites: MKT 230, 231, 232.

**338 STRATEGIC MARKETING MANAGEMENT****3 sem. hrs.**

Development, implementation, evaluation, and control of the marketing plan. Short- and long-run perspectives are considered equally important. Includes analysis of actual and hypothetical cases. Computer simulation gaming is typical. Prerequisites: MKT 230, 231, 232.

**339 SEMINAR IN MARKETING****3 sem. hrs.**

A specialized study of important narrow areas in the field of marketing for advanced students. Prerequisites: MKT 230, 231, 232 or consent of department chairperson. May be repeated once if a different topic and different instructor.

**403 MARKETING CONCEPTS****2 sem. hrs.**

Incorporates principles of marketing and marketing management, viewing the marketing function from the points of view of the consumer, business, and society. This course is for students without previous marketing course work. Prerequisite: Admission to a graduate business program or consent of the department chairperson. Cannot be presented for credit in the ACC or MBA programs.

**430 ADVANCED MARKETING MANAGEMENT****3 sem. hrs.**

Marketing principles, behavioral concepts, and quantitative techniques utilized in analyzing marketing problems and decisions. Emphasis on strategic and quantitative aspects of decision-making processes in marketing. A strategic marketing simulation game and/or rigorous case analyses are typical. Prerequisites: MKT 403 and MQM 406 or equivalents.

**431 ADVANCED CONSUMER BEHAVIOR**  
3 sem. hrs.

An analysis of psychological, sociological, social psychological, and cultural forces that influence household and industrial buying behavior. Emphasis placed on examination of research related to these influencing forces, practical applications of research findings, and on the analysis of comprehensive models of consumer behavior. Prerequisite: MKT 430.

**432 MARKETING RESEARCH**

An examination of the marketing research process. Includes client projects and content-related exercises, especially data analysis using various statistical packages. Prerequisite: MKT 430 or equivalent.

**433 ADVERTISING MANAGEMENT**  
3 sem. hrs.

Rigorous evaluation of elements for the effective development, implementation, and management of advertising and integrated promotion campaigns. Prerequisite: MKT 430 or equivalent.

**438 INTERNATIONAL MARKETING**  
3 sem. hrs.

Examination of strategic issues related to effective development and execution of global marketing programs. Includes case-studies and an applied term project. Prerequisite: MKT 430 or equivalent.

**439 SEMINAR IN MARKETING**  
1-4 sem. hrs.

Topics will vary with needs and interests of students and faculty. May be taken more than once if different material is covered. Selling/sales management and services marketing continue to be popular topics. Prerequisite: MKT 430 or equivalent.

**498 PROFESSIONAL PRACTICE:INTERNSHIP/  
COOPERATIVE EDUCATION IN MARKETING**  
1-6 sem. hrs.

Practical experience by employment in a position involving management of significant marketing activities in a firm. Prerequisites: MBA major with 12 credits of core courses completed; MKT 403 and 430; cumulative graduate GPA of 3.2 or higher; consent of department chairperson.

**499 MASTERS THESIS**  
1-6 sem. hrs.**BUSINESS TEACHER EDUCATION (BTE)**

**Note:** Graduate degrees in Business Education are not available, but course work is available as supplemental study or as electives for inservice teachers and graduate students on campus.

**General Administrative Endorsement With Emphasis in Vocational Education**

A career option leading to a general administrative endorsement with emphasis in vocational education is offered in cooperation with the Department of Educational Administration and Foundations through the Departments of Agriculture, Family and Consumer Sciences, Industrial Technology and Marketing (through the faculty affiliated with the Business Teacher Education programs housed there). Students interested in the vocational emphasis should (a) see department chairperson or appropriate adviser and (b) file an Intent to File for Certification form in the Office of Clinical Experiences and Certification Processes. All students who plan to receive certification for the State of Illinois via an approved Illinois State program must file official forms and follow specific procedures. Certification is not given automatically at the completion of specific course work or a degree program.

**Business Teacher Education Courses (BTE)****330 DECISION-MAKING FOR CONSUMERS**  
3 sem. hrs.

Survey of consumer problems, trends, and information. Topics include: insurance, housing, credit, life-styles, consumer protection, leisure, and achieving financial security. Also offered as FCS 330.

**360 TOPICS IN STRATEGIES OF TEACHING  
BUSINESS EDUCATION SUBJECTS**  
2 sem. hrs.

Methods of teaching business education subjects including typewriting/keyboarding, basic business, consumer economics, accounting, marketing education, word processing and current topics. May be repeated if content different. Prerequisites: BTE 260 or concurrent registration; and C&I 216. Clinical experiences required 12 hours, Type 1-6, 9.

**362 BASIC BUSINESS, ACCOUNTING AND  
MARKETING INSTRUCTION**  
3 sem. hrs.

Methods of teaching basic business, consumer economics, accounting and marketing. Prerequisites: BTE 260 or concurrent registration; admission to Teacher Education. Includes clinical experiences 12 hours, Type 1-6, 9.

**363 KEYBOARDING, INFORMATION PROCESSING  
AND COMPUTER APPLICATIONS**  
3 sem. hrs.

Instructional strategies in the teaching of personal and vocational keyboarding and computer applications at the junior high and high school levels. Prerequisites: BTE 225 and 260 or concurrent registration; admission to Teacher Education. Includes clinical experiences 12 hours, Type 1-6, 9.

**364 TEACHING KEYBOARDING, AND INFORMATION  
PROCESSING IN ELEMENTARY SCHOOLS**  
1 sem. hrs.

Methods of teaching keyboarding, information processing for elementary students. Prerequisites: BTE 363, or concurrent registration; admission to Teacher Education. Includes clinical experiences 5 hours, Type 1-6, 9.

**380 ORGANIZATION AND ADMINISTRATION OF  
COOPERATIVE VOCATIONAL  
EDUCATION PROGRAMS**  
3 sem. hrs.

Planning and organizing a cooperative program; emphasis on recruitment, selection of training stations, student placement, and implementation of cooperative plan. Clinical experiences required 5 hours, Type 1-6, 9. Also offered as FCS 380.

**381 DIRECTED OCCUPATIONAL EXPERIENCE  
FOR VOCATIONAL BUSINESS AND OFFICE,  
AND MARKETING EDUCATION**  
3 sem. hrs.

Designed to provide approved on-the-job experience for credit toward the occupational experience required of vocational business and office, and marketing education teachers.

**382 COORDINATION TECHNIQUES OF  
COOPERATIVE VOCATIONAL  
EDUCATION PROGRAMS**  
3 sem. hrs.

Coordination techniques needed for high school and post-secondary teacher coordinators in integrating classroom activities with daily employment. Clinical experiences required 5 hours, Type 1-6, 9. Also offered as FCS 382 and IT 306.

# COLLEGE OF EDUCATION

**Dean:** Sally B. Pancrazio. Office: 506 DeGarmo Hall

The College of Education includes the Departments of Curriculum and Instruction, Special Education, Educational Administration and Foundations, the Office of Clinical Experiences and Certification Processes, and the University Laboratory Schools.

The College of Education has three broad missions: (1) preparation of quality personnel to serve in all sectors of education in various capacities and at all levels of teaching and learning; (2) systematic study, research and evaluation of societal concerns within diverse cultural contexts and with the concomitant utilization of that research for society's benefit; and (3) active involvement in service activities designed to improve the quality of life through education and to ensure the necessity of existing programs and to identify new directions for the College.

The College of Education accepts responsibility for influencing public policy, standards, and practices which affect education at all levels. The preparation and continuing professional development of educators is the core of this mission. A comprehensive offering of degree, certification, and outreach programs operated year round at both undergraduate and graduate levels constitutes the primary mechanism through which the mission is fulfilled.

The College also fulfills its strategic mission of influencing education by providing support systems for faculty engaged in research, evaluation, product development and other creative activities. The research agenda of the College is focused on production, synthesis, and application of knowledge which tests and extends the knowledge base that undergirds educator preparation programs as well as contributes to solutions of contemporary education problems.

The third way the College meets its responsibility to influence education is to interact directly with practitioners in the field in a variety of partnerships in schools and other associations and agencies. The College provides services and engages in collaborative activities aimed at improving the experiences and programs available to students at all levels. In addition, the College is an active participant in discussions related to educational policy development within national, state and local arenas.

The Illinois Board of Higher Education has approved Illinois State University to offer full doctoral programs off-campus in the Quad Cities, Springfield, Joliet/Channahon, and Chicago. For further information contact the department chairs of Educational Administration and Foundations, Curriculum and Instruction, and Special Education.

## Clinical Experiences and Certification Processes

**Director:** Deborah Curtis, 310 DeGarmo Hall.

### Student Teaching

#### 399 STUDENT TEACHING

1-16 sem. hrs.

Graduate students who wish to do their student teaching must meet all of the relevant requirements as outlined in the University-Wide Teacher Education Requirements section of

the Undergraduate Catalog. Contact the CECP office for further explanation of these requirements and procedures to apply for student teaching.

Students who are working toward a master's or doctoral degree while taking course work leading to entitlement or endorsement from a graduate level program should submit an Intent to File for Certification form in the Office of Clinical Experiences and Certification Processes, 310 DeGarmo Hall. (This form and information concerning graduation certification may be downloaded at: [www.coe.ilstu.edu/cecp](http://www.coe.ilstu.edu/cecp).) Certification is not given automatically at the completion of specified course work or degree work.

Refer all questions concerning graduate certification to the Office of Clinical Experiences and Certification Processes.

## CURRICULUM AND INSTRUCTION (C&I)

**Chairperson:** S. Rex Morrow. Office: DeGarmo Hall 232.

**Graduate Program Directors:** Dent Rhodes, Kathleen Crawford, Vicky Morgan.

**Graduate Faculty:** D. Adair, T. Baer, W. Benenson, W. Black, J. Braun, J. Brown-Morris, K. Crawford, T. Crumpler, D. Curtis, R. Fisher, E. Gray, K. Jerich, J. Jinks, P. Kolloff, S. Lenski, M. Lorber, A. Lorschach, M. Moore, V. Morgan, S. Morrow, R. Moss, S. Nierstheimer, B. Nourie, J. Nwoye, D. Rhodes, W. St. Clair, M. Shaw-Baker, C. Toll.

### Doctor of Education in Curriculum and Instruction

The Department of Curriculum and Instruction offers work leading to the Ed.D. in Curriculum and Instruction. This multidisciplinary program is designed to prepare practitioners for educational leadership roles in both the public and private sector. Candidates may pursue courses of study related to service in positions such as instructional specialists in community and four-year colleges; teacher educators; curriculum coordinators at the pre-school, secondary, elementary level; community college teachers in selected applied areas; staff development or program assessment directors; or educational specialists in government, professional organizations, business and industry. Students may elect to develop complementary fields in areas such as reading, educational administration, or educational technology. Other areas are available to students upon departmental approval. Course requirements for the degree include a minimum of 9 sem. hrs. in Educational Foundations including 6 sem. hrs. of research methods or statistics; minimum of 24 sem. hrs. in Curriculum and Instruction; a minimum of 21 sem. hrs. in a complementary field with at least 9 sem. hrs. in this field taken outside the College of Education; 6 sem. hrs. internship; and a minimum of 15 sem. hrs. dissertation. Students must successfully complete at least two terms in full-time residency in a 12-month period or three terms in three consecutive summers. A term is defined as a semester or a summer session. Full-time is defined as successful completion of at least 9 semester hours of course work in a semester or 6 hours in a summer session of at least 8 weeks. Other university requirements for the doctoral program are listed elsewhere in this catalog.

## Master of Science in Curriculum and Instruction

### Admission Requirements

Applicants to the M.S. degree program in Curriculum and Instruction may be considered for admission by meeting all of the following requirements: 3.0 grade point average in the last 60 semester hours of undergraduate work; possess a current teaching certificate; at least two years teaching experience; and GRE scores on the General Test of at least 420 Verbal, 500 Quantitative, and 500 Analytical. If an applicant's GPA for the last 60 semester hours of undergraduate work is below a 3.0, the applicant may be considered for admission by completing 9 semester hours of degree work and obtaining a 3.5 GPA. Applicants who do not possess the required experience may request admission in consultation with the master's coordinator. The master's program does not lead to certification.

### Program Requirements

The M.S. in Curriculum and Instruction is based on the five propositions of the National Board for Professional Teaching Standards: 1) Teachers are committed to students and their learning; 2) Teachers know the subjects they teach and how to teach those subjects to students; 3) Teachers are responsible for managing and monitoring student learning; 4) Teachers think systematically about their practice and learning from experience; 5) Teachers are members of learning communities.

The M.S. in Curriculum and Instruction is a 36-hour program that includes either a comprehensive exam or a thesis. The following courses are required for both options: C&I 401, 402, 407, 409, 411, EAF 410, 6 hours of a specialization, and 6 hours of elective coursework. Students in the thesis option must take 6 hours of C&I 499; students in the comprehensive option must take C&I 481 and 482. No 300-level courses in the College of Education will be accepted for plans of study.

## Master of Science in Education in Curriculum and Instruction

### Admission Requirements

The M.S. in Ed. Degree Program in Curriculum and Instruction is intended for applicants who are completing the requirements for the Alternative Route to Secondary Teacher Certification (see below). Applicants to the M.S. Ed. Degree Program in Curriculum and Instruction may be considered for admission if they have completed the requirements for a Bachelor's degree and obtained a 3.0 GPA or higher, based on the last 60 hours of the degree program, who present scores of 420 Verbal, 500 Quantitative, and 500 Analytical on the Graduate Record Exam, and have five years work experience in an area requiring application of their education. Contact the Department to complete other admission materials and requirements.

### Program Requirements

The M.S. Ed. in Curriculum and Instruction is based on the five propositions of the National Board for Professional Teaching Standards: 1) Teachers are committed to students and their learning; 2) Teachers know the subjects they teach and how to teach those subjects to students; 3) Teachers are responsible for managing and monitoring student's learning;

4) Teachers think systematically about their practice and learn from experience; 5) Teachers are members of learning communities.

The M.S. Ed. in Curriculum and Instruction is a 48-hour program which is intended for students who have completed the Alternative Route to Teacher Certification and who subsequently wish to receive a master's degree. The program requires students to complete a Synthesizing Experience Option or a Thesis option. Students must complete a 24 credit core consisting of C&I 401, 402, 407, 409, 411, SED 411 and six hours of C&I 493.14. In addition, students must complete a three-hour methods course in their discipline and 12 hours of C&I 498 (a one-year internship). The synthesizing Experience Option requires EAF 410, C&I 481, and C&I 482. Students pursuing the thesis option must complete EAF 410 and C&I 499 (six hours).

## Alternative Route to Secondary Teacher Certification

The Alternative Route to Secondary Teacher certification proposal is a 39-hour certification program leading to an initial teaching certificate for secondary school teachers in the State of Illinois. The course of study through an alternate route requires satisfactory completion of the following courses: C&I 401, 402, 407, 409, 411, 493.14, SED 411, 498 Professional Practice, and a discipline-specific special methods course. Optional course work in addition to the approved course of study may be applied toward a Master's of Science in Education Degree Program in the Department of Curriculum and Instruction.

## Master of Science in Instructional Technology

The Master of Science in Instructional Technology is a 36-hour, cross-curricular program that offers two sequences. The Technology Specialist Sequence provides individuals with professional level skills in the organization, design, and application of resources to the solution of instructional problems within schools and provides candidates the opportunity for the Technology Specialist Endorsement. The Business/Industry/Education Sequence (non-endorsement) provides students with knowledge of instructional technology design and educational application in the workplace environment. Both sequences require either a research and development capstone experience or a thesis.

### Admission Requirements

To be eligible for admission, students must submit scores from the Graduate Record Examination (GRE) General Aptitude test, have a bachelor's degree, and have maintained a grade point average of 3.0 or more for the last 60 hours of undergraduate education. International students must present a TOEFL score of at least 570. Applicants must also submit a written statement regarding the applicant's experience with microcomputers and technology which relates applicant's professional goals to the program objectives. Applicants for the Technology Specialist Endorsement Sequence must possess a current teaching certificate and two years teaching experience.

### Academic Requirements

There are two 36-hour program options.

In **Option I**, Technology Specialist Endorsement Sequence, 12 semester hours of Core Courses consisting of C&I 407, 432,

434, and EAF 410 are required. Nine additional semester hours required for the Technology Specialist Endorsement Sequence are C&I 401, 438, and EAF 401. Nine hours of recommended electives are required from the following departments by advisement: Art, Applied Computer Science, Communications, Curriculum & Instruction, Educational Administration & Foundations, Music, Industrial Technology, Special Education, or Theater. Students may choose from two professional research alternatives to complete the master's degree. One is a research and development synthesis requiring completion of a comprehensive examination and C&I 486 and C&I 487. The second is a thesis for six credit hours of C&I 499.

In **Option II**, Business, Industry, and Education Sequence (non-endorsement), 12 semester hours of Core Courses consisting of C&I 407, 432, 434, and EAF 410 are required. Six hours of additional courses required for this sequence are C&I 430, and one of the following C&I 438, IT 383, or ACS 375.05. Twelve hours of recommended electives are required from the following departments by advisement: Art, Applied Computer Science, Communications, Curriculum & Instruction, Educational Administration & Foundations, Music, Industrial Technology, Special Education, and Theater. Students may choose from two professional research alternatives to complete the degree. One is a research and development synthesis requiring completion of a comprehensive examination and C&I 486 and C&I 487. The second is a thesis for six credit hours of C&I 499.

To be eligible for admission, students must submit scores from the Graduate Record Examination General Aptitude test, have a bachelor's degree, and have maintained a grade point average of 3.0 or more for the last 60 hours of undergraduate education. Applicants must also submit a written statement regarding the applicant's experience with microcomputers and technology which relates applicant's professional goals to the program objectives. Applicants to the Technology Specialist Endorsement Sequence must possess a current teaching certificate and two years teaching experience.

Graduate requirements include a component that provides for two professional research options; a year-long instructional research and design synthesis project and portfolio, or a thesis option. Students will present completed projects at the end of each semester and will present their portfolio for assessment to a professional committee composed of two professors from within the Department of Curriculum & Instruction and one from outside the department.

## Master's in Reading

### Admission Requirements

The department offers the M.S.Ed. in Reading. Applicants to the Master's Degree Program in Reading Education may be considered for admission by having obtained a 3.0 GPA in the last 60 semester hours of undergraduate work, possessing a current teaching certificate, and completing at least 2 years teaching experience. If an applicant's GPA for the last 60 semester hours of undergraduate work is below a 3.0, the applicant may be considered for probationary admission by taking 9 semester hours of required course work and obtaining a 3.3 GPA, or by submitting a combined verbal and quantitative score on the GRE of at least 1000.

### Program Requirements

The M.S. Ed. in Reading is a 36-hour program that includes a comprehensive examination and a 6 hour Professional

Research experience. The following courses are required: C&I 462, 463, 467, 468, 469, 493.03, EAF 415; and one of each of the following choices: C&I 461, ENG 390 or 492; ENG 372, 373, 374, 375 or C&I 470.01; C&I 465 or 450. No 300-level courses in the College of Education will be accepted for the plan of study.

### Endorsement in Reading

The Illinois State Board of Education has identified five areas of study and one elective required of all teachers whose major teaching assignment is reading. All teachers assigned departmentalized responsibility in reading or language arts must meet this 18 semester hour requirement. The Reading Program offers all course work leading to the reading endorsement.

### Special K-12 Reading Certificate

Course work leading to the Special K-12 Reading Certificate is offered in the Reading Program. The purpose of the certificate is to enable teachers to teach reading from Kindergarten through grade 12. The program leading to the Special K-12 Reading Certificate requires the completion of 33-39 semester hours in reading and related educational areas. Students working on the Special K-12 Certificate must first have a current teaching certificate.

## Courses

### 300 EDUCATIONAL ROLE OF PLAY IN EARLY CHILDHOOD 3 sem. hrs.

Emphasizes the process of play and its relationship to personal and cognitive development during the first eight years of life. Historical and current theories of play. Clinical experiences required 20 hours, Type 1-5.

### 303 READING METHODS 3 sem. hrs.

Supervised school experiences in assessment and instruction in reading. Prerequisite: C&I 220 or C&I 251 or consent of dept. chairperson. 40 hours clinical experience Type 1, 2, 9, 10. Formerly SED 301.

### 312 URBAN FIELD EXPERIENCE 3 or 6 sem. hrs.

An off-campus, community-based experience in urban schools, local community agencies, and state and private institutions serving youth.

### 319 STUDY OF BILINGUAL/BICULTURAL EDUCATION 3 hrs.

Theory, research, and practice in bilingual/bicultural education.

### 320 BILINGUAL/BICULTURAL PROGRAM DESIGN AND IMPLEMENTATION 3 hrs.

Emphasizes the process of developing a bilingual program, and examines the alternatives available at each stage.

### 331 HISTORY AND PHILOSOPHY OF EARLY CHILDHOOD EDUCATION 3 sem. hrs.

Emphasis given to major events and theories having an impact on Early Childhood Education in its contemporary form. Prerequisite: Concurrent registration in C&I 283.

**332 URBAN EDUCATION****3 sem. hrs.**

Strategies for educating urban students. Study of student characteristics, teacher skills and attitudes, instructional materials, techniques, school and community programs. Includes clinical experiences 15-20 hours, Type 1-4.

**401 INSTRUCTIONAL MEDIA AND TECHNOLOGY****3 sem. hrs.**

Applications of technology to theories of learning and methods of instruction. Developing and evaluating courseware to facilitate classroom instruction.

**402 REFLECTIVE TEACHING PRACTICE****3 sem. hrs.**

The study of the relationship between teacher reflection, planning, decision-making, and teaching practice.

**407 LEARNING IN EDUCATIONAL SETTINGS****3 sem. hrs.**

The study of classroom learning and assessment.

**409 STUDENT DIVERSITY AND EDUCATIONAL PRACTICES****3 sem. hrs.**

Examination of the student diversities found in classrooms and the impact of diverse learners on curricular and instructional practices. Prerequisites: C&I 402 and 407.

**411 CURRICULUM****3 sem. hrs.**

The study of curriculum models, planning, and evaluation. Prerequisites: C&I 402 and 407. Formerly C&I 476.

**412 PRINCIPLES OF CURRICULUM DESIGN****3 sem. hrs.**

The design, implementation, and evaluation of curriculum.

**415 INSTRUCTIONAL THEORY****3 sem. hrs.**

Theoretical models underlying the instructional process. Relation of instructional theory to instructional design and practice.

**421 FUNCTIONS OF THE MIDDLE SCHOOL****3 sem. hrs.**

Study of the classical functions of early adolescent education and the relationship of these functions to contemporary institutional/instructional settings.

**423 DEVELOPMENTAL ISSUES IN EARLY ADOLESCENT EDUCATION****3 sem. hrs.**

Examination of developmental patterns and issues in the education of early adolescents in middle level schools.

**425 NURSERY-KINDERGARTEN EDUCATION****3 sem. hrs.**

Criteria and procedures for developing, organizing, and administering early education programs. Intended for persons who plan to be responsible for the establishment and supervision of nursery-kindergarten programs.

**426 INSTRUCTIONAL APPROACHES TO PRIMARY CURRICULUM****3 sem. hrs.**

Developmentally appropriate approaches to teaching and learning primary grades language arts, science and social studies. Prerequisite: C&I 301 or 405.

**427 DESIGN AND IMPLEMENTATION OF EARLY CHILDHOOD EDUCATION PROGRAMS****3 sem. hrs.**

The design and implementation of programs for infants, toddlers, pre-kindergarten, and early elementary school children. Prerequisite: Professional involvement in an agency or institution providing early childhood education programs.

**430 INSTRUCTIONAL TECHNOLOGY IN THE WORKPLACE****3 sem. hrs.**

Examines the use of instructional technology in business, industry, government and military settings. Emphasis on possible resolutions to problems of selection, implementation, maintenance, and replacement. Prerequisite: Degree standing in Instructional Technology or consent of instructor.

**432 INSTRUCTIONAL TECHNOLOGY DESIGN****3 sem. hrs.**

Application of design principles and processes to resolve performance problems in educational and workplace settings through instructional technology. Prerequisites: C&I 401 or 430; C&I 407.

**434 INSTRUCTIONAL TECHNOLOGY PRODUCT DEVELOPMENT****3 sem. hrs.**

Development of interactive multimedia instructional technology products for resolving performance problems in educational and workplace settings. Prerequisite: C&I 432.

**438 DISTANCE LEARNING****3 sem. hrs.**

Examines the historical, conceptual, theoretical, and practical issues of distance teaching and learning. Provides an opportunity to research, design, develop, deliver, and evaluate curricula for distance learning. Prerequisites: C&I 401, 430, 401, or consent of instructor.

**439 APPLIED HUMAN GROWTH AND DEVELOPMENT****3 sem. hrs.**

Application of principles of human growth and learning in the classroom. Practice in the use of scientific procedures in the discovery of causes and the solution of classroom problems. Prerequisite: C&I or consent of instructor.

**441 EDUCATION OF THE GIFTED****3 sem. hrs.**

Survey of the field of education of the gifted. Deals with definition, identification, characteristics, programming, materials and evaluation of gifted students.

**450 CURRICULUM IN SCIENCE EDUCATION****3 sem. hrs.**

An historical review of science education curricula and analysis of contemporary standards-based curricula.

**451 RECENT RESEARCH IN SCIENCE EDUCATION****3 sem. hrs.**

Review and critical analysis of research in science education. Application of research for reflection and improvement of practices in science education.



**456 SEMINAR IN SCIENCE EDUCATION****1 sem. hrs.**

Investigations into selected issues in science education. Emphasis is placed upon literature research and the use of technology to prepare presentations synthesizing knowledge about a current issue. Course may be repeated for a maximum of three semester hours of credit.

**461 RECENT RESEARCH IN LITERACY LEARNING****3 sem. hrs.**

Study of recent research in literacy learning, emphasizing interpretation, critical analysis, and application of research for the improvement of instruction. May be repeated for credit every five years; may be applied only once to a graduate degree program.

**462 THEORETICAL FOUNDATIONS OF READING****3 sem. hrs.**

Theoretical bases for reading instruction, from cognitive to social-cultural processes as they relate to the teaching of reading.

**463 ASSESSMENT OF LITERACY LEARNING****3 sem. hrs.**

Evaluation of literacy learning using authentic assessments, standardized tests, observations and portfolios. Prerequisites: C&I 461 and 462 recommended.

**464 LANGUAGE ARTS INSTRUCTIONAL STRATEGIES****3 sem. hrs.**

The curriculum organization, instructional materials, and instructional strategies for language arts programs.

**465 CONTENT AREA LITERACY****3 sem. hrs.**

Strategies and materials designed to provide content area literacy instruction.

**467 ADVANCED LITERACY ASSESSMENT AND INSTRUCTIONAL STRATEGIES****3 sem. hrs.**

Advanced study of miscue analysis for assessing strategies of ineffective readers; includes development of instruction to support less proficient readers. Prerequisites: C&I 462 and 463. Clinical experiences.

**468 PROFESSIONAL RESEARCH IN LITERACY LEARNING I****3 sem. hrs.**

Design and implementation of curricular and instructional change in literacy learning in an educational setting. Prerequisites: C&I 467; 27 hours in Reading Program; consent of the Reading Program Coordinator; approved plan of study.

**469 PROFESSIONAL RESEARCH IN LITERACY LEARNING II****3 sem. hrs.**

Implementation of curricular and instructional change in literacy learning in an educational setting. Prerequisite: C&I 468.

**470 SEMINAR IN LITERACY****1-3 sem. hrs.**

Analysis of current literacy learning practices, trends, and issues.

**475 CLINICAL EXPERIENCES IN TEACHER EDUCATION****1-3 sem. hrs.**

The role of clinical experiences in teaching and learning. Significant trends, philosophies and programs in teacher education. For experienced teachers and administrators associated with teacher education programs. The course consists of three components and may be taken separately or in combination for 1, 2, or 3 hours.

**477 SUPERVISION OF INSTRUCTION****3 sem. hrs.**

Fundamentals of supervision as it relates to improvement of instruction, teacher inservice, group leadership, evaluation of instruction, and staff development. Includes clinical experiences.

**478 EVALUATING STUDENT PERFORMANCE****3 sem. hrs.**

Examination of the theory and practice of student evaluation. Communicating student achievement and the use of assessments as decision-making tools.

**479 ORGANIZATION AND MANAGEMENT OF CLASSROOM LEARNING****3 sem. hrs.**

Organizing the school for effective learning; effective approaches to learning in various curricular areas.

**481 PROFESSIONAL RESEARCH****3 sem. hrs.**

Study of teacher-initiated research and design of a curricular or instructional research project in an educational setting. Prerequisites: C&I 409 and 411; EAF 410; 27 semester hours of graduate study; formal Plan of Study filed; consent of instructor.

**482 PROFESSIONAL RESEARCH II****3 sem. hrs.**

Conduct and present a curricular or instructional research project in an educational setting. Prerequisite: C&I 481.

**483 SEMINAR ON ADULT LEARNING AND INSTRUCTION****3 hrs.**

Examines theoretical perspectives on adult learning and the instruction of adults, prepares learners to work with adults in formal and non-formal settings.

**484 OVERVIEW OF ADULT LITERACY EDUCATION****3 hrs.**

Participants will gain a deeper understanding of the roots and significance of historical and theoretical aspects of literacy education for adults. Prerequisite: C&I and Reading master's students, others by consent of instructor.

**486 RESEARCH AND DEVELOPMENT SYNTHESIS I****3 sem. hrs.**

Opportunity to develop a high-quality educational multimedia team project reflecting the processes of design, development, management, implementation, and evaluation. Begin the development of an individual instructional research project or a professional multimedia project. This course is to be taken after all Core Curriculum and Area of Specialization courses are complete. Prerequisites: C&I 432 and C&I 434.

**487 RESEARCH AND DEVELOPMENT SYNTHESIS II**  
3 sem. hrs.

Conduct and present a technology research project or develop and present a product for an educational environment. Prerequisite: C&I 486.

**491 INTERNSHIP IN COLLEGE TEACHING**  
3 sem. hrs.

Observation and teaching in the student's major area, with other experiences appropriate to academic involvement at the college level. Offered in cooperation and with the approval of the student's major department. Prerequisite: Graduate standing.

**499 MASTER'S THESIS**  
1-6 sem. hrs.**530 CURRICULUM AND INSTRUCTIONAL PATTERNS IN POST-SECONDARY EDUCATION**  
3 sem. hrs.

Readings on major curricular and instructional patterns in colleges, universities, continuing education, and personnel training programs. Emphasis on individualized study and reports.

**538 EVALUATION OF INSTRUCTION IN POST-SECONDARY EDUCATION**  
3 sem. hrs.

Major conceptions, elements, and processes of instructional evaluation in colleges, universities, continuing education and personnel training programs.

**539 SEMINAR IN CURRICULUM AND INSTRUCTION, POST-SECONDARY EDUCATION**  
3 sem. hrs.

Designed for intensive investigation of a variety of issues and contemporary trends related to the concerns of Post-Secondary educators.

**551 READING IN LITERACY**  
3 sem. hrs.

A survey of key readings that have influenced literacy education over the last century.

**553 ISSUES IN LITERACY RESEARCH**  
3 sem. hrs.

A consideration of issues that influence the manner in which literacy research is conducted and applied.

**555 SEMINAR IN LITERACY EDUCATION**  
3 sem. hrs.

An advanced exploration of a specific topic in literacy education. Prerequisite: C&I 551 or 553 or master's degree in literacy/reading education.

**562 THE EDUCATION OF TEACHERS**  
3 sem. hrs.

A study of the professional development of teachers and those involved in teacher education. Current practices and reform literature associated with pre-service and inservice teacher education.

**575 INSTRUCTIONAL RESEARCH**  
3 sem. hrs.

Alternative modes of research and their application in resolving problems of instructional practice. Meta-analysis of major research paradigms.

**576 PRINCIPLES OF CURRICULUM IMPROVEMENT**  
3 sem. hrs.

Examination of forces influencing curriculum improvement. Focuses on analysis of curriculum and application of principles for resolution of curriculum problems.

**577 ADVANCED SUPERVISION OF INSTRUCTION**  
3 sem. hrs.

Knowledge base and skills needed for instructional supervision in teacher education. Emphasis on application of research in clinical settings.

**578 INSTRUCTIONAL DESIGN**  
3 sem. hrs.

Design of instruction for schools, colleges, universities and other educational programs. Application of design principles for resolution of instructional problems.

**579 EDUCATIONAL TECHNOLOGY**  
3 sem. hrs.

Examination of the perspectives, theoretical foundations, and techniques of educational technology, and integration of that technology into the curriculum.

**590 IMPROVEMENT OF INSTRUCTIONAL PRACTICE IN POSTSECONDARY EDUCATION**  
3 sem. hrs.

Principles and methods for instructional improvement in post-secondary education. Emphasis on analyzing and resolving instructional problems.

**598 DOCTORAL INTERNSHIP**  
3-6 sem. hrs.

An internship providing for the integration of academic content materials with the role expectations of professional personnel.

**599 DISSERTATION RESEARCH**  
Variable credit

Research relating to requirements for the Doctor of Education degree. Approval of the program coordinator is required.

## EDUCATIONAL ADMINISTRATION AND FOUNDATIONS (EAF)

**Chairperson:** Dianne Ashby. Office: 331 DeGarmo Hall.

**Graduate Program Directors:** Dianne Ashby, Marcia Escott Hickrod, Patricia Klass, Larry Lowe.

**Graduate Faculty:** A. Adkins, D. Ashby, A. Azinger, P. Baker, V. Boschini, R. Chaudhari, E. Hines, P. Klass, E. Lugg, L. Lyman, P. McCluskey-Titus, J. Mogilka, M. Nur-Awaleh, G. Padavil, J. Palmer, S. Pancrazio, R. Riegle, D. Strand, K. Strand, P. Vogt, R. Wiggall.

### Programs Offered

Work leading to the M.S., M.S. in Ed., Ed.D. and Ph.D. degrees is offered in Educational Administration. Students may include in their academic programs courses required for Illinois Administrative Certification. The department also offers course work in the areas of educational foundations, research and evaluation, higher education administration, and K-12 school administration.

### Master's Degree Program

#### Admission Requirements

To be admitted to the Master's program a student must have at least a 3.0 GPA (on a scale in which A equals 4) for the last 60 hours of undergraduate work. Individuals with less than a 3.0

GPA for the last 60 hours will be considered for admission if they submit scores from the General Test of the Graduate Record Examination.

### Program Requirements

University requirements for the masters degree are listed elsewhere in this catalog. The department offers two master's degree programs. The M.S. degree requires a thesis. The M.S. in Ed. degree requires either 32 credit hours of course work plus a comprehensive examination, or 39 credit hours of course work. A required seminar serves as a synthesizing experience to the 39 hour option. All students take EAF 410, an EAF Foundations course, SOA 465, and either EAF 482, a comprehensive exam, or write a thesis. Within these degree programs, students may include course work required for K-12 Type 75 administrative certification or for a concentration in College Student Personnel Administration. Check with the department regarding courses required for certification.

Students interested in studying College Student Personnel are also advised to take EAF 428.01, 461, 462, 463, 464, 466, 473, 482.01, and 484. This concentration is appropriate for individuals who wish to perform the role of administrator, counselor, or educator in Student Affairs and Higher Education Administration. An academic advisor is appointed to assist each student with developing an approved plan of study.

## Doctoral Programs

### Admission Requirements

The Department offers work leading to the Ed.D. and Ph.D. degrees. To be eligible for consideration for admission, applicants must submit the following for review: scores from the Graduate Record Examination (GRE); two official transcripts from each college or university other than Illinois State University at which graduate credit was earned; three letters of recommendation; and a statement of career goals, indicating their compatibility with the Department's mission. Applicants may also submit samples of their academic writing. Admission is competitive. Other university requirements for these degrees are listed elsewhere in this catalog.

### Program Requirements

The doctoral program consists of a minimum 75 credit hours: 60 hours course work, a doctoral examination, and 15 hours dissertation research. All students must meet with an advisor to develop an approved plan of study. Students should not assume that courses which they have taken as at-large students will be included in their plans of study.

### Requirements for Ph.D. Candidacy

In general, the department requires that a Ph.D. candidate must have competency in two research methodologies. Competency in a methodology may be demonstrated by:

1. Reading knowledge of a foreign language.
2. Certification by the Department of Educational Administration and Foundations regarding knowledge and application of statistics as a research methodology.
3. Certification by the Department of Educational Administration and Foundations (and faculty external to the department when appropriate) regarding knowledge and application of other research methodologies (e.g. qualitative or legal research).

4. Certification by the Department of Educational Administration and Foundations (and faculty external to the department when appropriate) regarding knowledge and application of a discipline for research purposes.

## COOPERATIVE PROGRAM WITH SPRINGFIELD EDUCATIONAL CONSORTIUM

Graduate-level courses in educational administration may be available through the Springfield Educational Consortium. Students may take approved courses on the University of Illinois at Springfield campus from the participating universities—Illinois State, University of Illinois at Springfield, Southern Illinois-Carbondale, and Western—and receive commensurate credit toward an advanced degree in Educational Administration.

### CERTIFICATION PROGRAMS

Requirements for administrative endorsements may be met through the degree programs in educational administration or through a non-degree certification program (post-master's). Students seeking an endorsement must be admitted to the Department either as a master's student, as a doctoral student, or as a non-degree certification student. The Graduate Admission-Readmission Application is used for all three types of students. All individuals seeking administrative endorsements must also apply for these endorsements with the Director of Clinical Experiences and Certification Processes upon admission to one of the educational administration programs.

The General Administrative (Type 75/Principals), Superintendent, and Chief School Business Official Endorsements all require teaching and/or administrative experience. Students are also required to complete field experiences (internships) within their program of studies prior to being recommended for any endorsement.

Students interested in seeking certification must meet with an advisor to develop an appropriate plan of study. Students should not assume that course work taken as a Student-at-Large or at other universities will be applied toward recommendation for certification.

## Courses

### 401 ADMINISTERING EDUCATIONAL TECHNOLOGY 3 sem. hrs.

Planning, implementing, and evaluating technology. Practical approach to staff development, organizational effectiveness, facilities, finances, and technical aspects.

### 402 ADMINISTRATIVE APPLICATIONS OF EDUCATIONAL TECHNOLOGY 3 sem. hrs.

Development of computer skills for solving administrative problems; applications using word processing, spreadsheet analysis, data base systems, data analysis, and graphics. Prerequisite: EAF 401 or equivalent is recommended.

### 410 RESEARCH METHODOLOGY AND STATISTICS IN EDUCATION I 3 sem. hrs.

The development of basic skills required in the understanding, planning and executing of a research study; introduction to analysis of quantitative and qualitative data.

**411 EDUCATIONAL EVALUATION**

3 sem. hrs.

A survey of models, designs, data analytic techniques, and issues of educational program evaluation, as well as issues and procedures in testing. Design of an evaluation project is required. Prerequisite: EAF 410 or consent of instructor.

**415 QUALITATIVE RESEARCH IN EDUCATIONAL SETTINGS**

3 sem. hrs.

The development of the necessary knowledge and skills for applying qualitative techniques of investigation to the research of educational problems.

**421 REFLECTIVE DECISION-MAKING IN EDUCATION**

3 sem. hrs.

Techniques for critical, reflective thinking about educational problems and policies studied from philosophical, historical, cross-cultural and social science perspectives.

**423 PROFESSIONAL ETHICS IN EDUCATION**

3 sem. hrs.

Systematic inquiry into ethical issues faced by contemporary educators and philosophical techniques and theories which can help practitioners resolve them. Prerequisites: EAF 401, 410, 485, 494.

**428 SELECTED TOPICS IN FOUNDATIONS OF EDUCATIONAL POLICY**

3 sem. hrs.

Intensive inquiry into the educational significance of problems generated by philosophical, comparative, or historical issues. May be repeated if topics are different. EAF 428.01 is for students in any of the Higher Education concentrations.

**431 INDIVIDUALIZED FIELD WORK IN EDUCATION**

2 or 3 sem. hrs.

(See C&I 431.) Consent of department chairperson.

**447 ADMINISTERING EDUCATIONAL PROGRAMS FOR STUDENTS WITH DISABILITIES**

3 sem. hrs.

Principles and problems involved in administration of educational programs for exceptional children. Also offered as SED 447.

**461 STUDENT PERSONNEL ADMINISTRATION IN HIGHER EDUCATION: EVOLUTION AND DEVELOPMENT**

3 sem. hrs.

Examination of the evolution and development of student personnel administration in colleges and universities. Prerequisite: Graduate standing in EAF.

**462 THE ORGANIZATION AND ADMINISTRATION OF STUDENT PERSONNEL FUNCTIONS IN HIGHER EDUCATION**

3 sem. hrs.

Contemporary student personnel administration and organization of functions and activities associated with student personnel administration at colleges and universities. Prerequisite: Graduate standing in EAF; EAF 461 or consent of instructor.

**463 THE AMERICAN COLLEGE STUDENT**

3 sem. hrs.

The study of the college student and of the historical, environmental, and developmental influences which have affected student life from 1965 to the present.

**464 PRACTICUM IN STUDENT PERSONNEL ADMINISTRATION IN HIGHER EDUCATION**

3-8 sem. hrs.

Supervised work experience in a student services' office, department, or related area in higher education. Prerequisite: Consent of instructor. May be repeated.

**465 MANAGING HUMAN AND FISCAL RESOURCES IN EDUCATION**

3 sem. hrs.

Prepares building administrators to plan and implement use of human and fiscal resources for delivery and improvement of educational programs. Emphasis is on skills principals need related to budget and personnel. Prerequisites: EAF 401; EAF 410, 485, 494; C&I 478, 479.

**466 COLLEGE STUDENTS AND THE LAW**

3 sem. hrs.

Legal concepts, issues, and court decisions affecting college students. Implications for student personnel administrators in higher education. Prerequisites: EAF 461 and 462.

**473 ORGANIZATION AND ADMINISTRATION IN COMMUNITY COLLEGES**

3 sem. hrs.

Community colleges are studied in relation to other institutions of higher education. Organizational structure, governance, finance, staffing, program administration, problems, issues, and trends will be included.

**478 LEGAL BASES OF PUBLIC EDUCATION**

3 sem. hrs.

Legal aspects of public education with emphasis on constitutional law, the Illinois School Code, and judicial rulings. Examination of rights and responsibilities of boards, administrators, teachers and students. Prerequisites: EAF 401, 410, 485, 494.

**479 FINANCIAL BASES OF PUBLIC EDUCATION**

3 sem. hrs.

Major concepts of financial aid and taxation, research, and public policy in school finance including equity, adequacy, efficiency, and budgeting. Includes site-based administration and allocation of funds.

**480 EDUCATIONAL FACILITIES AND SUPPORT SERVICES**

3 sem. hrs.

Emphasis on systems of appraising, managing and planning school buildings, sites, equipment, and support services (plant operations and maintenance, food service, and transportation).

**481 ADMINISTRATION AND ORGANIZATION OF SCHOOLS**

3 sem. hrs.

A survey of the principles of administration and organization of the school relating to the functioning of the public school system at the local, intermediate, state and national levels. Special attention is directed towards personnel practices, curriculum development, instructional improvement, interpersonal communication, and the relationship of school to community.

**482 ADMINISTRATION SEMINAR**

3 sem. hrs.

Culminating seminar for 39-hour master's degree program. Emphasis upon changing educational relationships, students' major concerns, and current problems. Prerequisites: EAF 410, 485, 423, 478, 465, 494; SOA 465; C&I 478, 479. EAF 482.01 is for students in any of the higher education concentrations.

**483 MANAGEMENT OF EDUCATIONAL FUNDS****3 sem. hrs.**

Develops competence in managing funds in public K-12 education. Topics include cash and investment management, budgeting and forecasting, fund accounting, financial statements and auditing, data processing systems, and student activity funds. Prerequisite: EAF 479 or consent of instructor.

**484 ADMINISTRATION OF CONTINUING EDUCATION AND PUBLIC SERVICE****3 sem. hrs.**

Administration of continuing education and public service; emphasis upon developing, financing, staffing, sustaining, and administering continuing education and public service of all educational institutions. Prerequisite: Admission for graduate work.

**485 THE PRINCIPALSHIP****3 sem. hrs.**

The purpose of this course is the development and application of knowledge and competencies of the school building principal. EAF majors only.

**486 PERSONNEL ADMINISTRATION****3 sem. hrs.**

Provides general understanding of personnel functions in education. Special emphasis on staff development, communication, job analysis, recruitment, selection, collective bargaining, contract administration, and long range planning.

**487 ORGANIZATION DEVELOPMENT****3 sem. hrs.**

Conceptual understanding and skill development in planned change, conflict management, interpersonal communications, group processes, and team building as they relate to improving organizations.

**492 POLITICS OF EDUCATION SEMINAR****3 sem. hrs.**

Serves as a practical way to introduce the student to the effect and understanding of the methods of politics in the educational arena; emphasis on state level politics of education.

**494 EDUCATIONAL PUBLIC RELATIONS****3 sem. hrs.**

Issues and techniques of Public Relations as a two-way process: interpreting the public to the system as well as interpreting the system to the public as a basis for action. Prerequisites: 410, 423, 478, 485, 465.

**496 BARGAINING IN EDUCATION****2-3 sem. hrs.**

Issues and techniques of collective bargaining in education. The three-credit-hour offering includes additional research and experiences with contract language interpretation and analysis of grievances.

**498 PROFESSIONAL PRACTICE****1-8 sem. hrs.**

Supervised work experience in local, state, national, and international businesses, agencies, institutions, and organizations. Prerequisites: Recommendation of advisor prior to beginning of semester.

**499 MASTER'S THESIS****1-6 sem. hrs.****509 RESEARCH DESIGN IN EDUCATION: ISSUES AND STANDARD PRACTICES****3 sem. hrs.**

Examination of issues related to designing and planning research studies. Students learn to apply techniques to specific educational research problems. Prerequisite: EAF 410 or equivalent.

**510 RESEARCH METHODOLOGY AND STATISTICS IN EDUCATION II****3 sem. hrs.**

Logic of statistical inference; introductory study of analysis of variance and multiple regression, with a computer oriented approach. Prerequisite: EAF 509 or equivalent.

**511 RESEARCH METHODOLOGY AND STATISTICS IN EDUCATION III****3 sem. hrs.**

Design of multi-variable studies, multivariate data analysis using statistical computer programs. Prerequisite: EAF 510 or equivalent.

**512 RESEARCH METHODOLOGY AND STATISTICS IN EDUCATION IV****1-6 sem. hrs.**

Provides for advanced study of research design and data analysis. Consult instructor prior to registration. Prerequisite: EAF 511 or consent of instructor.

**515 METHODS OF QUALITATIVE RESEARCH IN EDUCATION****3 sem. hrs.**

Develops knowledge and skills in research design, data collection and analysis techniques associated with qualitative research. These techniques are employed in a research project associated with educational problems. Prerequisite: EAF 415 or SOA 473; EAF 509 or consent of instructor.

**521 EDUCATIONAL POLICY ANALYSIS****3 sem. hrs.**

Purposes, paradigms, methodologies, and elements of policy analysis in education. Prerequisite: One graduate level course in educational foundations or consent of instructor.

**523 SEMINAR IN EDUCATIONAL POLICY ANALYSIS****3 sem. hrs.**

Intensive inquiry into the comparative, philosophical, and/or historical dimensions of selected educational policies. May be repeated providing the subject matter is not repeated. Prerequisite: One graduate level course in educational foundations or consent of instructor.

**524 EDUCATIONAL POLICY ADVOCACY****3 sem. hrs.**

Examination of the theory and practice of policy advocacy in education. Prerequisite: One graduate level course in educational foundations or consent of instructor.

**525 FOUNDATIONS OF COMPARATIVE MULTICULTURAL EDUCATION****3 sem. hrs.**

Comparative analysis of multicultural education in the United States and selected areas of the world. Prerequisite: One graduate level course in educational foundations or consent of instructor.

**526 HISTORY OF EDUCATIONAL THOUGHT**  
3 sem. hrs.

This course will undertake the critical reading and critique of selected works which have had historically impact educational thought in America.

**548 ADVANCED SEMINAR ON LEGAL BASES OF EDUCATION**  
3 sem. hrs.

For advanced graduate students in Educational Administration. Varied emphasis depending on interests of students and contemporary issues in school law. Prerequisites: EAF 478 or consent of instructor. May be repeated provided topics are not repeated.

**561 ORGANIZATION AND GOVERNANCE IN HIGHER EDUCATION**  
3 sem. hrs.

Introduction and extensive reading of literature in organization and governance in higher education. Topics include organizational structure, policies, and practices for administration of contemporary higher education.

**562 DECISION MAKING IN HIGHER EDUCATION**  
3 sem. hrs.

Utilization of simulated data for decision making, evaluating the educational environment, allocation of resources, analysis of staffing patterns, and utilization of microcomputers.

**563 CRUCIAL ISSUES IN AMERICAN HIGHER EDUCATION**  
3 sem. hrs.

Issues, problems, and current topical concerns in the administration of higher education. Specific topics may vary and students will complete research projects on selected current critical issues.

**564 PLANNING IN HIGHER EDUCATION**  
3 sem. hrs.

Components, models, and approaches to planning in higher education. Includes needs assessment, master planning, self-study, outcomes, and the function of institutional research. Prerequisite: EAF 561 or consent of instructor.

**570 PUBLIC FINANCE OF HIGHER EDUCATION**  
3 sem. hrs.

An investigation of topics and problems in the public finance of higher education. Topics will vary each semester but the following will be included: Revenue policy and expenditure policy for higher education, program and performance budgeting and other efficiency concerns, investment in education and national economic growth, aspects of the business management of higher education. Prerequisite: EAF 561 or consent of instructor.

**571 COLLEGE AND UNIVERISTY ADMINISTRATION**  
3 sem. hrs.

Academic and other college/university departments are analyzed in relation to institutional problems and trends. Departmental management issues will include governance, finance, staffing, academic administration, coordination, and evaluation. Prerequisite: EAF 561 or consent of instructor.

**575 SEMINAR IN SCHOOL BUSINESS MANAGEMENT**  
3 sem. hrs.

Emphasis on planning and cost analysis strategies for local school district financial management. Content will vary with the needs of the students and focus on emerging problems in school business and financial management that leads to school improvement. Prerequisites: EAF 479, 483 or consent of instructor. May be repeated.

**576 ADMINISTRATION OF INSTRUCTIONAL PROGRAMS**  
3 sem. hrs.

Administrative strategies for implementation, maintenance, revision, and evaluation of instructional programs and curriculum.

**578 LEGAL BASES OF HIGHER EDUCATION**  
3 sem. hrs.

Overview of the law of higher and postsecondary education. Topics will vary, but the following will be included: legal issues pertaining to students, faculty, college employees, administrators, trustees, and governance. Prerequisites: Advanced graduate standing. Prerequisite: EAF 561 or consent of instructor.

**579 RESEARCH SEMINAR ON THE PUBLIC FINANCE OF EDUCATION**  
3 sem. hrs.

Seminar for graduate students who wish to understand and conduct research on the financing of education, critique output from major research centers. Prerequisites: EAF 479 or equivalent.

**582 ADMINISTRATIVE THEORY IN EDUCATION**  
3 sem. hrs.

Overview of sociological and behavioral theories that are applicable to administration of various educational organizations.

**583 SEMINAR IN EDUCATIONAL LEADERSHIP**  
3 sem. hrs.

Designed to provide an understanding of the leadership structures and processes in educational organizations. Required of all doctoral candidates in administration.

**584 SUPERINTENDENT AND CENTRAL STAFF**  
3 sem. hrs.

Development and assessment of knowledge, responsibilities, and competencies required of chief administrative officer, and in the case of larger districts, his/her central staff. Students may participate in a professional growth seminar. Prerequisite: Advanced graduate standing.

**594 RESEARCH SEMINAR IN EDUCATION**  
3 sem. hrs.

Designed for the development of a doctoral dissertation proposal ready for committee consideration. Various methodological and design components will be studied.

**599 DISSERTATION RESEARCH**  
Variable credit

Research relating to research requirements for Doctor of Philosophy and Doctor of Education degrees. Maximum of 16 semester hours credit in research may be counted toward residency.

## SPECIAL EDUCATION (SED)

**Chairperson:** James R. Thompson. Office: DeGarmo Hall 533.  
**Graduate Program Directors:** Barbara Fulk, Cindy Lawson.  
**Graduate Faculty:** G. Aloia, M. Angell, J. Bakken, S. Bock, M. Bowen, E. Crowley, N. DeMario, B. Fulk, E. Glenn, M. Hutchins, M. Lartz, J. Lian, L. Morreau, J. Thompson, D. Tucker, E. Watts.

### Doctoral Program

The department offers work leading to an Ed.D. degree in Special Education. The program is designed to prepare indi-

viduals in teacher education, program design/management, and research/evaluation. Admission to the program requires possession of the master's degree and professional experience relevant to the education of exceptional children and youth. The doctoral program is highly individualized, based on educational and professional experience and career plans. A student's program will include formal course work, independent study, professional practice, and a dissertation. A minimum of 60 hours, not including the dissertation, is required to complete the degree. Students who have completed a sixth-year program or have identified only post-master's degree competencies may petition for a waiver of up to 12 semester hours of the required 60 hours of work.

### Master's Degree Program

A student may work toward a Master of Science or a Master of Science in Education degree by fulfilling the requirements specified in this catalog. Graduate work for the master's degree is offered in the following sequences: Learning and Behaviorally Disordered, Deaf and Hard of Hearing, Educable Mentally Handicapped, Moderate Severe or Multiple Disabilities, and Visual Disabilities. To be admitted to the Master's Degree Program in Special Education, a student must have obtained a grade point average of 3.0 (on a scale where A equals four) for the last 60 hours of undergraduate work. A student with a grade point average below 3.00 must take the Graduate Record Examination (GRE) and submit scores of at least 1000 on two out of three subtests of the General GRE. Candidates for admission will be asked to submit documentation of successful teaching experience and ability and disposition for advanced study in special education. Departmental requirements and options for the master's degree are listed below.

**Option 1** is a 32 semester hour program including a thesis. The student must complete at least 15 semester hours in Education and/or Psychology including EAF 410, SED 440, PSY 301 or 302 and 4 to 6 semester hours of thesis credit. At least 15 hours must be in courses numbered at the 400 level or above. Additional courses to meet program requirements are selected following recommendations of an adviser.

**Option 2** is a 32 semester hour program of course work including a comprehensive examination. Course requirements are the same as Option 1, but thesis credit is not required.

**Option 3** is a 39 semester hour program of course work. The student must complete C&I 411, EAF 410, SED 440, 446 (specific to area of concentration), 445, and 482. At least 18 semester hours must be in courses numbered at the 400 level or above. Additional courses to meet program requirements are selected following recommendations of an adviser. SED 482 contains the capstone experience for this option.

### Certification

Students who are working toward a master's or doctoral degree and who are also taking course work leading to certification or an endorsement by entitlement should complete an Intent to File for Certification form in the Office of Clinical Experiences and Certification Processes. All students who plan to receive certification in the State of Illinois via an approved Illinois State program must file official forms and follow specific procedures. Certification is not

given automatically at the completion of specified course work or degree work.

### Courses

#### 313 SPECIAL ADAPTATIONS FOR INDIVIDUALS WITH VISUAL DISABILITIES

1 sem. hr.

Not for credit to students specializing in Visual Disabilities. Implications of visual disabilities for the individual in educational, travel, vocational, and other settings.

#### 314 SPECIAL ADAPTATIONS FOR INDIVIDUALS WITH PHYSICAL DISABILITIES

1 sem. hr.

Not for credit to students specializing in Physical Disabilities. Implications of physical disabilities for the individual in educational, travel, vocational and other settings. Includes clinical experience approximately 6 hours, Type 1 and 6.

#### 315 SPECIAL ADAPTATIONS FOR INDIVIDUALS WITH HEARING DISABILITIES

1 sem. hr.

Not for credit to students specializing in Hearing Disabilities. Implications of hearing disabilities for the individual in educational, travel, vocational and other settings. Includes clinical experience approximately 2 hours, Type 1.

#### 343 MENTAL RETARDATION

3 sem. hrs.

Medical, psychological, and sociological characteristics and behavior of individuals with mental retardation. Methods of classification, etiology, and rehabilitative aspects.

#### 346 EDUCATION OF STUDENTS WITH MILD MENTAL RETARDATION

3 sem. hrs.

Objectives, curriculum and methods for teaching individuals with mild cognitive disabilities. Materials charge optional. Prerequisite: SED 343 or consent of department.

#### 350 INTRODUCTION TO VISUAL DISABILITIES

4 sem. hrs.

Impact of visual impairments on development; basic anatomy of the eye; types, causes, and educational implications of eye disorders; educational programming. Includes clinical experience approximately 10 hours, Type 1.

#### 351 EDUCATION AND ASSESSMENT OF STUDENTS WITH VISUAL DISABILITIES

3 sem. hrs.

Application of educational diagnosis to educational programming and instruction of individuals with visual disabilities. Prerequisites: SED 350 and 356. Admission to Teacher Education.

#### 352 BRAILLE READING AND WRITING

3 sem. hrs.

Preparation in reading and writing using the Braille Literary Code. Includes an introduction to Braille Textbook Format. Materials charge optional.

#### 353 EDUCATION OF DEAF STUDENTS

2 sem. hrs.

Psychological, social, historical, and educational problems relating to education of individuals with hearing impairments. Prerequisite: SED 145 or equivalent. Includes clinical experience approximately 10 hours, Type 1.

**354 TEACHING LANGUAGE TO DEAF AND HARD OF HEARING STUDENTS**  
3 sem. hrs.

Principles and techniques of developing and teaching language to deaf and hard of hearing students at all grade levels, K-12. Prerequisites: SED 130, 230, 330, 353 or consent of department. Concurrent registration in SED 245.08 required. Admission to Teacher Education.

**355 THE TEACHING OF SPEECH TO DEAF AND HARD OF HEARING STUDENTS**  
3 sem. hrs.

Principles and techniques of developing and teaching speech to hearing impaired students at all grade levels. K-12. Prerequisites: SED 354 and PAS 211 or consent of department. Concurrent registration in SED 245.09. Admission to Teacher Education.

**356 COMMUNICATION SKILLS FOR STUDENTS WITH VISUAL DISABILITIES**  
3 sem. hrs.

Preparation in reading and writing using Nemeth Code, in teaching mathematics and communication skills to individuals with visual disabilities. Prerequisite: SED 352. Materials charge optional.

**357 ORIENTATION AND MOBILITY FOR CLASSROOM TEACHERS**  
2 sem. hrs.

Practicum in basic daily living skills and rudimentary mobility techniques for individuals with visual disabilities.

**358 READING AND LANGUAGE ARTS FOR STUDENTS WITH VISUAL DISABILITIES**  
3 sem. hrs.

Development of competencies to teach reading and language arts to students who use print, braille, and auditory media. Instructional techniques and materials emphasized. Prerequisites: SED 350 and 352 and C&I 220 and 303. Admission to Teacher Education.

**359 TEACHING READING AND SCHOOL SUBJECTS TO DEAF AND HARD OF HEARING STUDENTS**  
3 sem. hrs.

Teaching reading and other core subjects to deaf and hard of hearing students at all grade levels. Prerequisite: SED 354. Concurrent registration in SED 245.10. Admission to Teacher Education.

**362 BASIC SKILLS IN COUNSELING**  
3 sem. hrs.

Introduction to and laboratory practice in the basic procedures and skills of counseling. Lecture and Laboratory.

**363 FAMILY COUNSELING**  
3 sem. hrs.

Theories and techniques of child management, consultation procedures, parent and family education.

**370 APPLIED BEHAVIOR ANALYSIS IN SPECIAL EDUCATION**  
3 sem. hrs.

Procedures for determining individual behavioral needs, designing instructional sequences, implementing behavior change programs, and evaluating effects of programs for individuals with disabilities. May include Clinical Experiences; approx. 10-12 hrs.; Type 1-4.

**371 SYSTEMATIC INSTRUCTION FOR INDIVIDUALS WITH DISABILITIES**  
3 sem. hrs.

Classroom or program organization strategies, teaching methods, and materials for curriculum content areas appropriate for individuals with disabilities. Prerequisites: SED 145 or equivalent. Formerly SED 345.

**372 EDUCATIONAL ASSESSMENT OF INDIVIDUALS WITH DISABILITIES**  
3 sem. hrs.

Application of diagnostic skills to the assessment of severely and profoundly disabled individuals, designing individualized programs, and evaluating client progress and program effectiveness.

**373 FAMILY-PROFESSIONAL COLLABORATION**  
3 sem. hrs.

Theoretical and practical aspects of collaborating with families of individuals with disabilities.

**374 EDUCATIONAL ASSESSMENT OF THE PRESCHOOL CHILD WITH DISABILITIES**  
3 sem. hrs.

Techniques and issues involved in gathering, analyzing and synthesizing data for developing and monitoring individualized programs for preschool children with disabilities. Prerequisites: SED 145 or consent of department chair.

**375 ASSESSMENT AND PLANNING FOR DEAF AND HARD OF HEARING STUDENTS**  
3 sem. hrs.

Examines individual assessment tools and techniques appropriate for developing an individualized educational program for students who are deaf and hard of hearing. Prerequisites: PSY 234, SED 354, 355 and 359, or 359 concurrent registration required.

**376 CURRICULUM DEVELOPMENT AND IMPLEMENTATION FOR INDIVIDUALS WITH DISABILITIES**  
3 sem. hrs.

Analysis and implementation of curricular approaches related to characteristics and educational needs of individuals with disabilities. Prerequisites: SED 145 or equivalent; SED 343; concurrent registration in SED 245.02; admission to Teacher Education. Formerly SED 244.

**377 COMMUNICATION STRATEGIES FOR INDIVIDUALS WITH DISABILITIES**  
3 sem. hrs.

Issues, intervention strategies, and technologies that can impact the communication skills of individuals with disabilities. Prerequisites: SED 145 or equivalent.

**379 ASSISTIVE TECHNOLOGY FOR INDIVIDUALS WITH DISABILITIES**  
3 sem. hrs.

Overview of a wide range of assistive technology devices and services for individuals with disabilities. Demonstration of devices, laboratory experiences, and identification of funding sources. Prerequisite: SED 145 or equivalent or consent of instructor.

**380 TRANSITION FROM SCHOOL TO ADULT LIFE**  
3 sem. hrs.

Examining postsecondary options, developing vocational/career education programs and synthesizing employment opportunities for individuals with disabilities. Materials charge optional.



- 400 INDEPENDENT STUDY**  
1-4 sem. hrs.  
Prerequisite: Consent of the department chairperson.
- 410 EDUCATIONAL ASSESSMENT AND PLANNING FOR INDIVIDUALS WITH DISABILITIES**  
3 sem. hrs.  
Assessing educationally relevant behaviors of exceptional pupils and developing specific educational plans based on assessed strengths and weaknesses.
- 411 SURVEY OF SPECIAL EDUCATION**  
3 sem. hrs.  
Focus on the physiological, psychological, sociological and educational impact of disabilities on children, youth and adults. All areas of exceptionality studied.
- 421 NATURE AND NEEDS OF STUDENTS WITH LEARNING DISABILITIES**  
3 sem. hrs.  
Educational characteristics, classification systems, theoretical approaches to etiology, assessment systems and services for children/youth with learning disabilities. Prerequisite: SED 411 or equivalent survey course.
- 422 TEACHING STUDENTS WITH LEARNING DISABILITIES**  
3 sem. hrs.  
Curriculum, instructional objectives, methods and materials for educating children/youth with learning disabilities. Prerequisites: SED 421 or equivalent.
- 425 CREATING SAFE SCHOOLS**  
3 sem. hrs.  
Theory and practice in creating safe schools and generating processes for school disorder prevention and remediation. Prerequisites: Bachelor's degree or advanced undergraduate with permission of instructor. Also offered in CJS.
- 431 INDIVIDUALIZED FIELD WORK IN SPECIAL EDUCATION**  
2-6 sem. hrs.  
Direct experience teaching individuals with disabilities. This course meets the preclinical hour requirements for certification but is not to be used as a substitute for STT 399. Approval for practicum sites and credits must be granted by the department chairperson. Can be repeated.
- 440 CONTEMPORARY ISSUES AND TRENDS IN SPECIAL EDUCATION**  
3 sem. hrs.  
Advanced study of contemporary issues and trends in special education using a non-categorical approach. Prerequisite: SED 145 or 411 or PSY 346 or equivalent.
- 445 CURRICULUM DEVELOPMENT FOR STUDENTS WITH SPECIAL NEEDS**  
3 sem. hrs.  
Study of curriculum development, curricular modification and assessment of learning outcomes for students with disabilities and other special needs. Prerequisite: C&I 411 or equivalent.
- 446 SEMINAR IN SPECIAL EDUCATION AND REHABILITATION**  
2 sem. hrs.  
Seminar in various areas of special education and rehabilitation.
- 447 ADMINISTERING EDUCATIONAL PROGRAMS FOR STUDENTS WITH DISABILITIES**  
3 sem. hrs.  
Principles and problems involved in administration of educational programs for exceptional children. Also offered as EAF 447.
- 448 INSTRUCTIONAL PROCEDURES FOR STUDENTS WITH EMOTIONAL/BEHAVIOR DISORDERS**  
3 sem. hrs.  
Assessing educational and behavioral needs of students and designing instructional and behavioral management programs. Prerequisites: PSY 347 or equivalent.
- 454 CONSULTATION AND COLLABORATION IN SPECIAL AND GENERAL EDUCATION**  
3 sem. hrs.  
Provides preparation for effective consultation and collaboration between professionals, paraprofessionals, parents, and students.
- 463 THEORY AND PRACTICE IN GROUP COUNSELING**  
3 sem. hrs.  
Participation in a structured and nonstructured group experience with associated study of interpersonal relationships. Includes study of leadership styles, techniques, and interventions within framework of relevant theories. May be repeated for credit for a total of six semester hours.
- 464 THEORIES AND TECHNIQUES OF COUNSELING**  
3 sem. hrs.  
Goals, methods, and procedures as seen from a number of differing theoretical positions. Emphasis on interpersonal dimensions of counseling interviews.
- 465 VOCATIONAL COUNSELING**  
3 sem. hrs.  
Acquiring and using occupational and educational information. Consideration of job requirements and training opportunities; developing occupational units; nature of vocational development.
- 482 SEMINAR IN SPECIAL EDUCATION RESEARCH**  
3 sem. hrs.  
Analysis of theoretical issues in special education through study of professional literature and research. Prerequisites: EAF 410 and SED 440.
- 498 PROFESSIONAL PRACTICE**  
3-8 sem. hrs.  
Refer to General Courses.
- 499 MASTER'S THESIS**  
1-6 sem. hrs.
- 500 INDEPENDENT STUDY**  
1-4 sem. hrs.  
Prerequisite: consent of department chairperson.
- 503 SEMINAR IN SPECIAL EDUCATION PROGRAM DESIGN AND DEVELOPMENT**  
3 sem. hrs.  
Application of program design and development strategies in special education. Prerequisites: Advanced degree standing and consent of instructor.

**512 ADVANCED APPLIED RESEARCH IN SPECIAL EDUCATION**  
2 sem. hrs.

For advanced graduate students preparing to conduct research in school and related settings. Prerequisites: EAF 510. May be repeated with consent of instructor.

**513 SEMINAR IN EVALUATION OF SPECIAL EDUCATION PROGRAMS**  
2 sem. hrs.

Prepares personnel to evaluate the effectiveness of special education programs. Prerequisites: Admitted to doctoral program in Special Education, consent of instructor.

**514 PERSONNEL PREPARATION IN SPECIAL EDUCATION**  
3 sem. hrs.

An introduction to processes and applied practice in curriculum development, instruction, supervision, advisement, evaluation, and professional development for preservice and inservice education in special education. Prerequisite: Advanced degree standing.

**540 SEMINAR IN CONTEMPORARY TOPICS IN SPECIAL EDUCATION**  
3 sem. hrs.

Contemporary topics related to issues of identification, assessment, intervention and other problem areas. Prerequisites: SED 440, and/or consent of instructor.

**593 RESIDENT SEMINAR**  
1 sem. hr.

Contemporary treatment of field issues and professional development needs for advanced resident graduate students in Special Education. Available as 593.01 Applied Research in Special Education; 593.02 Grant Proposal Development; 593.03 Computer Applications in Special Education; 593.04 Policy and Legal Issues in Special Education; and 593.05 Professional Development. Prerequisites: Admission to Doctoral Program in Special Education.

**594 RESEARCH SEMINAR IN EDUCATION**  
3 sem. hrs.

Designed for dissertation proposal development for doctoral students. Emphasis on the design of a proposal ready for committee consideration.

**598 PROFESSIONAL PRACTICE**  
1-12 sem. hrs.

Provides doctoral students with an opportunity to integrate academic coursework with role expectations of professional personnel. Available as 598.01 Professional Practice in Teacher Preparation; 598.02 Professional Practice in Applied Research; and 598.03 Professional Practice in Program Administration. Prerequisites: Admission to the Doctoral Program in Special Education.

**599 DISSERTATION RESEARCH**  
Variable credit.

Research relating to research requirements for Doctor of Education degrees. Approval of the chairperson of the department of the program in which the student is enrolled is required.

**599 DISSERTATION RESEARCH**  
Variable credit

Research relating to research requirements for Doctor of Education degrees. Approval of the chairperson of the department of the program in which the student is enrolled is required.

# COLLEGE OF FINE ARTS

**Dean:** Roosevelt Newson. Office: Room 116 Center for Visual Arts

The College of Fine Arts and its departments of Art, Music, and Theatre have a variety of degree programs, sequences, and concentrations available, including an interdisciplinary degree program in Arts Technology (see description below).

The purpose of the College's degree programs is to provide education for graduate and undergraduate students desiring professional careers in select areas of the arts and for students preparing to be elementary, secondary, and college teachers. The College offers graduate programs leading to the:

- Master of Science (M.S.) in art, theatre, or arts technology
- Master of Arts (M.A.) in art or theatre
- Master of Fine Arts (M.F.A.) in art or theatre
- Master of Music (M.M.)
- Master of Music Education (M.M.E.)

The degree programs provide a flexible curricula for a variety of student talents and research interests at the graduate level.

## Program for Master of Science in Arts Technology

**Program Director:** Shari Zeck. Office: Center for the Visual Arts, Room 216.

The Master of Science in Arts Technology is a 39-hour interdisciplinary program in the College of Fine Arts that emphasizes theory, design, and practice in the application of computer technology to art, music, and theatre. The program provides critical training and experiences in arts technology to better prepare professional artists for the rapidly emerging need for training in digital art, computer graphics and theatre design, digital music and sound, multimedia, web design, and arts management.

### Admission Requirements

Students who have maintained an average of 3.0 or more for the last 60 hours of undergraduate education and have a bachelor's degree are eligible for admission. Candidates will be expected to demonstrate artistic proficiency in at least one of the areas of art, music, or theatre with a major or minor in a fine arts area, professional equivalence in a fine arts area, or a willingness to complete undergraduate deficiencies in fine arts. Students are required to submit three recommendations, a portfolio in their fine arts specialization including examples of arts technology work, a letter describing the extent of their technology training prior to entering the program, and a resume.

### Academic Requirements

The 39 hours required for the degree are programmed as follows:

- Students must complete 9 hours from the arts technology core which includes ART, MUS, or THE 469, and 6 hours from two different departments of ART 480, THE 480, or MUS 480. Prerequisite to the core are ART, MUS, or THE 350 and ART, MUS, or THE 387 (ART/MUS/THE 387 may be taken concurrently with 469).

- Students must complete 12 hours of an arts technology emphasis. ART/MUS/THE 388, 301, 406, and 480 may be repeated with different topics or experiences.

*Art and Theatre emphasis.* In consultation with the program advisor, students will select study related to computer art and graphics to include 12 hours from ART, MUS, or THE 387 and ART, MUS, or THE 350; ART or THE 359; ART or THE 388; ART or THE 301; ART or THE 406; ART or THE 480; or other courses from Art, Music, or Theatre which make extensive application of computer technology as approved by the program advisor.

*Music emphasis.* In consultation with the program advisor, students will select study related to computer music applications to include 12 hours from ART, MUS, or THE 387; ART, MUS, or THE 350; MUS 353; MUS 354; MUS 388; MUS 301; MUS 406; MUS 480; or other courses from Art, Music, or Theatre which make extensive application of computer technology as approved by the program advisor.

- Students must select 9 hours of electives from related coursework outside of the fine arts or additional fine arts coursework in consultation with the program advisor.

- Students must complete 3 hours of an internship or professional practice experience in arts technology (ART, MUS, or THE 498.09) and 6 hours of a directed project (ART, MUS, or THE 490).

## ART

**Chairperson:** Ron Mottram. Office: Center for the Visual Arts Room 119.

**Graduate Faculty:** F. Anderson, S. Appel, W. Archer, P. Blum, P. Bushell, J. Butler, L. Douglas, R. Finch, L. Fisher, D. French, A. Iorio, R. Jackson, J. Johnson, G. Justis, C. Kukla, J. Lee, C. Lieberman, S. MacDonald, J. Mai, T. Malone, R. McKinney, R. Mottram, S. Rankin, P. Sacaridiz, J. Suhr, P. Tannura, J. Walker, J. Wax.

The Department offers work leading to the following degrees: M.A., M.S., and M.F.A. General University requirements for degrees are described elsewhere in this catalog. The Department reserves the right to keep examples of original work produced by graduate students for its permanent collection of student art work.

### Master's Degree Programs

The master's degree in Art requires a minimum of 32 hours including a master's thesis or a comprehensive examination. A candidate for the degree must spend at least one full term in residence in order to qualify for the degree. A full term may be interpreted as one semester with a class load of 9-15 hours, or a summer session with a class load of 6-9 hours.

To enter one of the available master's options, the applicant must meet the minimum requirements of the Graduate School and pass a portfolio review in the Department. (Portfolios are to be sent to the Director of Graduate Programs, c/o the Art Department.)

Students applying to Art Education or Art Therapy are required to submit a portfolio containing a) at least three examples of writing, b) documents of independent accomplishments or pro-

fessional activities, c) examples of artwork and/or examples of work by the applicant's students, and d) at least two letters of recommendation (to be sent directly to the Graduate Director) by people familiar with the applicant's academic or professional performance.

For entering a Studio Sequence, the portfolio must include examples of artwork (slides are preferred), Artist Statement, three letters of recommendation, and one example of scholarly writing.

Students applying to Art History are required to submit a portfolio containing at least three papers illustrating research and writing skills, and at least two letters of recommendation (to be sent directly to the Graduate Director) by people familiar with the applicant's character and academic performance.

For students applying to the Art Technology option, the portfolio must include examples of artwork (slides preferred), Artist Statement, Statement of Projected Goals, three letters of recommendation, and one example of scholarly writing sent to the Director of Graduate Studies.

### Program Requirements

All students pursuing master's degrees in Art must complete a core requirement of three courses: Art 495 Graduate Seminar in Art History, Art 497 Introduction to Research Methodology, and Philosophy 339 Topics in the Philosophy of Art. Graduate students also select one of the following sequences, which have additional specified requirements.

### Sequence in Art Education

401 Foundations of Art Education .....	3 hours
402 Issues in Art Education .....	3 hours
403 Curriculum in Art Education .....	3 hours
Electives in courses and/or Special Projects in Art Education .....	6 hours
Total .....	15 hours

The rest may be chosen from a wide range of fields which are relevant to art or education and which reflect the student's interests. Some examples are: an area of Studio Art, Curriculum, Psychology, Special Education, Community Art Programs, College Level Art, and Humanities. A comprehensive examination or thesis is required of each student at the end of the program.

### Concentration in Art Therapy

Art Therapy is a Concentration within the Sequence in Art Education. Specific plans of study should be developed in concert with the graduate program adviser in art therapy. For the Concentration in Art Therapy it is suggested that students select 9 hours from the following: Art 407 Foundations of Art Therapy, Art 408 Art Therapy Interventions: Special Populations, Art 409 Clinical Approaches to Art Therapy, Art 410 Art-Based Assessments and Methodologies in Art Therapy, Art 414 Art Therapy Approaches in Treating Sexual Abuse, and Art 415 Ethical, Legal and Multicultural Aspects of Art Therapy.

Students wishing to fulfill the 1993 Guidelines for Education and Training of the American Art Therapy Association must take 21 hours of art therapy coursework, have 50 to 100 hours of fieldwork in art therapy (Art 444.12 Problems in Studio Work 2-6 hours), and do a 600 hour practicum (Art 498.12 Co-op/Internship in Art Therapy 2-6 hours).

### Sequence in Art Studio

Each student is expected to complete a concentration in one of the following disciplines: painting, sculpture, printmaking,

ceramics, fibers, metalwork and jewelry design, photography, drawing, or glass. Although a program is developed in consultation with an adviser and can be tailored to the student's interests, a typical program includes at least 15 hours of 444 Problems in Studio Work (in one of the above studio areas) and 3 hours of 451 Special Projects in Art. Three hours of Art History, in addition to the M.A./M.S. core courses, are required. A graduate exhibition, as part of the comprehensive examination, is required at the end of the program.

### Sequence in Art History

A sequence in Art History requires at least 15 hours of coursework in Art History (of these 9 must be at the 400 level), at least 3 hours in a related field outside the Department (history, literature, anthropology, etc.), and 4-6 hours of 499 Thesis. Only the M.A. is offered in Art History Sequence. Students who have not satisfied the language requirement before entering the program must do so as early as possible while pursuing the program.

### Master of Fine Arts

The Master of Fine Arts in Art is a 60-hour program that emphasizes both theory and practice in the production, history, and teaching of the visual arts. Candidates will be expected to demonstrate artistic proficiency in at least one of the following disciplines: painting, sculpture, printmaking, video, ceramics, fibers, metalwork and jewelry design, photography, drawing, or glass. Candidates will also be expected to demonstrate an ability to communicate ideas in a written and oral manner.

Students may also participate in an experience of internship or apprenticeship. This may take the form of a guided teaching experience or work in a professional area related to the student's area of interest. (Conceivably this might involve local industry, school, etc.) The exact nature of this experience will be worked out through counseling between the major adviser and the student and will be tailored to best suit the needs of each student. This project will be subject to approval of the student's graduate committee.

It should be clearly understood that the accumulation of 60 semester credit hours is not the primary criterion in evaluating final achievement. Instead, it is the exhibition and demonstration of the student's competency and his/her intellectual maturity and that these expectations be deemed proficient in his/her area of the arts. In view of this, a major requirement will be a comprehensive showing of the student's visual work along with a written project and an oral examination of the intellectual implications of his/her work.

A typical program for the Master of Fine Arts degree will include at least 60 semester hours of graduate work beyond the bachelor's degree. These 60 hours may be programmed as follows:

- At least 36 semester hours must be taken in the Art Department, of these at least 24 must be at the 400 level.
- At least 24 semester hours must be in the student's major studio area, of these at least 18 must be at the 400 level.
- At least 12 semester hours must be taken in art history, or nine hours may be taken in art history with three hours in related areas such as aesthetics, philosophy, or anthropology, or MFA Seminar.
- At least three hours of MFA Seminar. Taking the MFA Seminar under heading "C" does not substitute for this requirement.
- Six hours of 496 M.F.A. Exhibition and Supportive Statement. This will involve a comprehensive exhibition of studio work, an exhibition-related written project, and a comprehensive oral examination. Candidacy review must

take place before a student can enroll in Art 496 or schedule the MFA exhibition and must include approval of proposal for the supportive statement.

### Concentration in Art Technology

Students who wish to augment their regular programs with computer-related knowledge and skills may pursue a special program leading to a concentration in art technology. The concentration is available to students in any of the Art Department's graduate programs: M.A., M.S. and M.F.A.

To complete the concentration, the student should complete 9 hours from the following offerings (ART 359, ART 387, ART 388, ART 498), in addition to an exit project. The exit project may be performed in conjunction with a regular exit requirement in one of the Art Department's graduate programs.

### Courses

#### 301 COMPUTER ARTS APPLICATIONS

1 sem. hr.

Variable topic course that focuses on the application of computer software to solving studio, performance, and production problems in the arts. Prerequisite: Consent of instructor. May be repeated if content different. Also offered as MUS/THE 301.

#### 302 GRAPHIC DESIGN FOR THE WEB

3 sem. hr.

Graphic Design studio course introducing students to the concerns and design issues appropriate to web environments. Prerequisites: Foundations Program in Art, ART 226, 227, and 326; graduate students must have consent of instructor.

#### 307 ART FOR ATYPICAL INDIVIDUALS

3 sem. hrs.

Various approaches to the development and conduct of appropriate art experiences in school and community programs for the atypical individual. Prerequisite: C&I 250. Includes Clinical Experiences; 10 hrs.; Types 1-7, and 9.

#### 308 ART THERAPY: HISTORY AND PRACTICE

3 sem. hrs.

Overview of art therapy from pre-historic origins to contemporary issues. Exploration of art therapy practices and career options. Materials charge optional.

#### 309 PROFESSIONAL ART EDUCATION SEQUENCE

6 sem. hrs. (3 each semester)

Sequential semesters focus on art learning theory, teaching methodology, and pre-student teaching clinical experiences in Art Education K-12. Not for credit if had Art 203 or 204. For Art Education majors, others by consent of department chairperson. Two consecutive semester sequence. Prerequisites: C&I 216 or concurrent registration.

#### 313 LIFE DRAWING II

3 sem. hrs.

Advanced study of the human figure as a motif in drawing, including emphasis on media and the content of figuration. Prerequisite: ART 214. May be repeated. Materials charge optional.

#### 315 TOPICS IN GRAPHIC DESIGN

3 sem. hrs.

Studio/seminar course covering special topics related to graphic design. May be repeated if content different. Prerequisite: ART 227.

#### 324 METALWORK AND JEWELRY DESIGN III

2-6 sem. hrs.

Advanced metalworking with an emphasis on volume and color, including raising, repousse, forging and various enameling techniques. Prerequisite: ART 225. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

#### 325 ADVANCED METALWORK AND JEWELRY DESIGN

2-4 sem. hrs.

Elaboration upon metalworking skills previously acquired, allowing development of a strong personal direction. Prerequisite: ART 324 and consent of instructor. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

#### 326 GRAPHIC DESIGN III

3 sem. hrs.

Transitional course using the skills, techniques, and concepts learned earlier; applying them to problems of contemporary expression. Preparation for study on independent basis. Prerequisites: ART 226, 227, and 231. Materials charge optional.

#### 328 CERAMICS III

2-6 sem. hrs.

Experiences in wheel and handbuilding processes with an emphasis on individual exploration of ideas through ceramic media. Prerequisite: ART 229. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

#### 331 ADVANCED DRAWING

1-3 sem. hrs.

Transitional course using the skills, techniques, and concepts learned earlier, applying them to problems of contemporary expression. Preparation for study on independent basis. Prerequisite: Art 214. May be repeated.

#### 332 SCULPTURE III

2-6 sem. hrs.

Transitional course. Individualized problems exploring techniques and concepts encountered earlier and their application to problems of contemporary expression. Preparation for study on an independent basis. Prerequisite: ART 233. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

#### 333 TOPICS IN ADVANCED PHOTOGRAPHY

3 sem. hrs.

Advanced photography course focusing on different topics each semester. Seminar format with topics relating to assigned studio work. May be repeated if content different. Prerequisites: ART 103, 104, 109, 155, and 156; ART 236 or consent of instructor.

#### 334 TOPICS IN ADVANCED SCULPTURE

3 sem. hrs.

An advanced sculpture course focusing on a different topic each semester. Seminar format with topics relating to assigned studio work. Prerequisite: Sculpture I, II, III, or consent of instructor. Materials charge optional.

**335 PHOTOGRAPHY III****2-6 sem. hrs.**

Advanced problems in photography as an art form. Emphasis upon individual exploration of the medium. Prerequisite: ART 236 or consent of instructor. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

**336 GRAPHIC DESIGN IV****3 sem. hrs.**

Advanced studio work exploring design techniques applied to advertising, packaging and display media. Materials fee optional. Prerequisite: ART 326.

**340 FIBERS III****2-6 sem. hrs.**

Advanced studio work based on the technical and aesthetic concepts presented in Weaving I & II. Emphasis upon individualized projects designed in consultation with instructor. Prerequisite: ART 241. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

**344 WOOD II****3 sem. hrs.**

Studio exploration of wood as a medium of personal expression. Prerequisite: ART 234.

**345 INTAGLIO II****2-6 sem. hrs.**

Further study of intaglio processes with greater emphasis on intaglio as an expressive medium. Introduction to color possibilities. Prerequisite: ART 245. May be repeated. Materials charge optional.

**346 LITHOGRAPHY II****3 sem. hrs.**

Further study of lithographic processes with greater emphasis on lithography as an expressive medium. Introduction to color possibilities. May be repeated. Prerequisite: 246. Materials charge optional.

**347 ADVANCED PRINTMAKING****3 sem. hrs.**

Advanced study of printmaking. Emphasis on contemporary printmaking issues related to content, directions in printmaking, exploration of all print media. Prerequisites: ART 345 and 246, or 346 and 245. May be repeated. Materials charge optional.

**349 VISITING ARTIST SEMINAR****2 sem. hrs.**

A seminar-type class taught by visiting artists and members of the Art department faculty, focusing upon contemporary issues of fine arts and the creative process. May be repeated.

**350 SOFTWARE DESIGN IN THE ARTS II****3 sem. hrs.**

Designing online digital projects for the Internet which use Web and multimedia techniques to create aesthetic models for art, music, and theatre expression. Prerequisite: ART/MUS/THE 387 or consent of instructor. Also offered as MUS/THE 350.

**351 SPECIAL PROJECTS IN ART****2-6 sem. hrs.**

Special projects in art or art education chosen by the student for advanced investigation with the approval of the instructor. May not duplicate existing courses. Consent of instructor required. May be repeated. Variable credit. Amount of performance per credit to be determined by contract with instructor. Materials charge optional.

**352 RENDERING FOR INTERIOR DESIGNERS****3 sem. hrs.**

Perspective sketching and delineations of architectural interiors. Various media and application techniques will be stressed for professional results in presentations. Prerequisites: ART 103 and 104, or consent of instructor.

**353 COMPUTER MUSIC NOTATION****3 sem. hrs.**

Study of computer-based music printing and an introduction to MIDI for note entry and proof reading of musical scores. Prerequisite: Consent of instructor. Also offered as MUS/THE 353.

**354 SEQUENCING AND DIGITAL AUDIO****3 sem. hrs.**

Study of music synthesis through MIDI sequencers, digital sound editing and recording, and the integration of digital audio and MIDI. Prerequisite: Consent of instructor. Also offered as MUS/THE 354.

**355 GLASS II****2-6 sem. hrs.**

Further practice in glass blowing skills coupled with the introduction of techniques to alter and shape cold glass. Prerequisite: ART 255. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

**356 COLOR PHOTOGRAPHY****3 sem. hrs.**

An advanced class creating color photographs which addresses issues and theory in contemporary photography as a fine art. Prerequisite: ART 335 or consent of instructor. Materials charge optional.

**358 SOCIAL DOCUMENTARY PHOTOGRAPHY****3 sem. hrs.**

Studio practice in social documentary photography. An examination of the artist's role as social observer and documentarian. Prerequisite: consent of instructor.

**359 COMPUTER-BASED ART AND GRAPHIC DESIGN****3 sem. hrs.**

Application of advanced two- and three-dimensional graphics programs to solve creative problems in the visual and theatrical arts. Prerequisite: ART 386 or MUS 386 or THE 386 or consent of instructor. Also offered as THE 359. Materials charge optional.

**361 PAINTING IV****2-6 sem. hrs.**

Transitional course. Student encouraged to explore personal directions in close consultation with instructor. Preparation for study on an independent basis. Prerequisite: ART 263. May be repeated. Variable credit. Amount of performance per credit to be determined by contract with instructor.

**362 WATERCOLOR I****3 sem. hrs.**

Watercolor as an expressive medium. Techniques, study of masters of watercolor, emphasis on creating pictorial space by illusion, color and the use of transparency. Prerequisite: ART 261.

**363 COLOR THEORY****3 sem. hrs.**

A practicum to give the studio art student a context of theoretical and historical color premises as a basis for making color-organized works. Discussion of student work, process, color-formed space and aesthetic analyses. Prerequisite: ART 261.

**364 ADVANCED GROUP STUDIES  
IN GLASS****3 sem. hrs.**

A studio/seminar format class, dealing with image/object realization, and the development of greater verbal, written, and visual articulation skills. Prerequisites: ART 255 and 355, or consent of instructor.

**366 ART OF THE ANCIENT NEAR EAST****3 sem. hrs.**

Art and architecture of early civilizations of Egypt, Mesopotamia, and peripheral areas from circa 8000 B.C. to circa 300 B.C. Prerequisite: ART 155 or consent of instructor.

**367 GREEK ART****3 sem. hrs.**

Greek art and architecture from ca. 1500 B.C. through the Hellenistic period. Prerequisite: ART 155 or consent of instructor.

**368 ROMAN ART AND ARCHITECTURE****3 sem. hrs.**

Roman art and architecture in Italy and the provinces from the late Republic through the early fourth century A.D. Prerequisite: ART 155 or consent of instructor.

**369 HISTORY OF MEDIEVAL ART  
AND ARCHITECTURE****3 sem. hrs.**

Art and architecture of Europe from circa A.D. 500 to the Renaissance. Prerequisite: ART 155 or consent of instructor.

**372 MODERN ARCHITECTURE****3 sem. hrs.**

European and American architecture since the Industrial Revolution, later 18th century to the present.

**375 ITALIAN RENAISSANCE ART****3 sem. hrs.**

Painting, sculpture, and architecture of the 15th and 16th centuries in Italy.

**376 NORTHERN RENAISSANCE ART****3 sem. hrs.**

Art and architecture of the Renaissance and Mannerism in Northern Europe.

**377 HISTORY OF BAROQUE AND ROCOCO ART****3 sem. hrs.**

Painting, sculpture, and architecture of Europe during the 17th century.

**378 ART IN EUROPE FROM THE AGE OF  
ROMANTICISM THROUGH IMPRESSIONISM****3 sem. hrs.**

Art in Europe from the mid-18th century to c. 1885.

**379 MODERN ART****3 sem. hrs.**

Painting and sculpture in Europe and America from the late 19th century to 1970.

**380 ART IN THE UNITED STATES I:  
COLONIAL-19TH CENTURY ROMANTICISM****3 sem. hrs.**

Art and architecture in the part of North America that became the United States from the outset of European colonization through the Early Republic, circa 1600 to 1825.

**381 ART IN THE UNITED STATES II:  
AMERICAN IMPRESSIONISM- WORLD WAR II****3 sem. hrs.**

Art and architecture in the United States from about 1825 to 1930.

**382 ART IN THE UNITED STATES III:  
FROM THE DEPRESSION TO 1970****3 sem. hrs.**

Complex developments, especially in painting and sculpture, which occurred in American art from the Depression era to 1970.

**383 HISTORY OF PHOTOGRAPHY****3 sem. hrs.**

Study of important photographers and the major aesthetic and technical developments of photography from 1840 to the present.

**385 RECENT DEVELOPMENTS IN ART:  
1970 TO THE PRESENT****3 sem. hrs.**

An examination of major international visual artists and the role of public and private institutions within the contemporary arts world. Prerequisites: Art major only or consent of instructor. Previous successful completion of ART 257.

**387 SOFTWARE DESIGN IN THE ARTS****3 sem. hrs.**

Designing and programming microcomputer based software which solve particular applications problems in the fine arts. Prerequisite: Consent of instructor. Also offered as MUS 387 and THE 387. Materials charge optional.

**388 SELECTED TOPICS IN ARTS TECHNOLOGY****3 sem. hrs.**

Varied emphasis reflecting integration of computers with digital sound/graphic technologies and authoring tools for applications in the arts. May be repeated if content different. Prerequisite: ART 386 or consent of instructor. Also offered as MUS 388 and THE 388. Materials charge optional.

**401 FOUNDATIONS OF ART EDUCATION****3 sem. hrs.**

A study of the historical and philosophical foundations of art education.

**402 ISSUES IN ART EDUCATION****3 sem. hrs.**

Problems in art education from the point of view of research and critical inquiry. May be repeated once.

**403 CURRICULUM IN ART EDUCATION****3 sem. hrs.**

Examination of various art curriculum schemes K-14: philosophies, content, methods, research, and evaluation. Prerequisite: Teaching experience or consent of instructor.

**406 COMPUTER PERFORMANCE ARTS STUDIO**  
1-3 sem. hrs.

Creative and interdisciplinary experiences in solo and ensemble performance integrating computer technology with music, dance, performance art, or theatre production. Prerequisite: Consent of instructor. May be repeated if content different. Also offered as MUS/THE 406.

**407 FOUNDATIONS OF ART THERAPY**  
3 sem. hrs.

Overview of historical and theoretical approaches to the field of art therapy from the 1920's to the present.

**408 ART THERAPY INTERVENTIONS:  
SPECIAL POPULATIONS**  
3 sem. hrs.

Art therapeutic strategies for persons with handicapping conditions including adaptive strategies. Relevant research, assessment strategies, development of treatment plans. Prerequisite: ART 407 and permission of instructor.

**409 CLINICAL APPROACHES TO ART THERAPY**  
3 sem. hrs.

Clinical approaches to group, family, adolescent and child art therapy including special population issues. Field work applications. Prerequisite: ART 407, 408, and permission of instructor.

**410 ART-BASED ASSESSMENTS AND  
METHODOLOGIES IN ART THERAPY**  
3 sem. hrs.

Art-based assessments, evaluations and methodologies appropriate for art therapy, including the study of symbols of psychopathology. Prerequisites: ART 407, 408, and consent of instructor.

**412 READINGS IN ART EDUCATION**  
3 sem. hrs.

Familiarization with studies and writings on the nature of art and artistic behavior.

**414 ART THERAPY APPROACHES  
IN TREATING SEXUAL ABUSE**  
3 sem. hrs.

Art therapy intervention strategies for children and adults who have been sexually abused. Prerequisite: graduate standing and consent of instructor.

**415 ETHICAL, LEGAL AND MULTICULTURAL  
ASPECTS OF ART THERAPY**  
3 sem. hrs.

An examination of ethical, legal and multicultural issues in the art therapy field including expert witness procedures and legal aspects of diagnosis and treatment. Prerequisites: ART 407, 408, 409, and consent of instructor.

**421 PROBLEMS IN TEACHING ART IN  
HIGHER EDUCATION**  
2-5 sem. hrs.

Opportunity for observation, participation, and teaching at the college level. Assignments are made with the approval of the department chairperson at least two months prior to registration.

**444 PROBLEMS IN STUDIO WORK**  
2-6 sem. hrs.

Individual creative work in painting, sculpture, printmaking, ceramics, weaving, jewelry, design, photography, drawing, or glassblowing. May be repeated. Must have permission of instructor. Variable credit. Amount of performance per credit to be determined by contract with instructor. Materials charge optional.

**451 SPECIAL PROJECTS IN ART**  
2-6 sem. hrs.

An individual project in a particular discipline—art education, an area of studio art, or art history—chosen and planned by the student with approval of qualified instructor. May be repeated if material covered is not duplicated. Variable credit. Amount of performance per credit to be determined by contract with instructor. Materials charge optional.

**469 DESIGN AND AESTHETIC ISSUES IN  
ARTS TECHNOLOGY**  
3 sem. hrs.

Provides foundation for further graduate study in arts technology by introducing students to design and aesthetic issues related to multimedia and the digital arts. Prerequisite: Arts technology major or consent of instructor. Also offered as MUS/THE 469.

**480 ADVANCED COMPUTER TOPICS IN ART**  
3 sem. hrs.

Intensive study of an announced topic exploring mainstream and experimental computer issues related to the creation of art, graphics, animation, or video. Prerequisite: Arts Technology majors and ART, MUS, or THE 350 and 387; or consent of instructor. May be repeated if content different.

**490 DIRECTED PROJECTS IN ARTS  
TECHNOLOGY**  
1-6 sem. hrs.

Arts technology practicum for graduate students. Designed to integrate fine arts and technology skills in an intensive project environment. Prerequisite: Consent of arts technology program advisor. A maximum of 6 hours may be counted toward a master's degree. May be repeated for credit. Also offered as MUS/THE 490.

**491 INTERNSHIP IN COLLEGE  
TEACHING IN ART**  
3 sem. hrs.

Credit for the course is given in C&I (see C&I 491).

**494 MFA SEMINAR**  
3 sem. hrs.

A forum for exploring, jointly, art-related ideas and issues relevant to the studio arts. Emphasis on analytical and writing skills. Prerequisite: MFA students in the visual arts, or consent of department chair. May be repeated once for credit.

**495 GRADUATE SEMINAR IN ART HISTORY**  
3 sem. hrs.

Intensive study of an announced topic in art history with emphasis on methodology, original research and various art historical approaches. Prerequisites: Successful completion of at least one 300-level art history course and consent of instructor required. May be repeated if content differs.

**496 M.F.A. EXHIBITION AND  
SUPPORTIVE STATEMENT**  
1-6 sem. hrs.

Comprehensive exhibition of studio work, an exhibition-related written project, and a comprehensive oral examination. M.F.A.s only.

**497 INTRODUCTION TO RESEARCH  
METHODOLOGY**  
3 sem. hrs.

Introduction and survey of bibliography, methods of scholarly research, and critical evaluation of research and writings in the field.



**498 INTERNSHIP/COOPERATIVE  
EDUCATION IN ART**  
1-6 sem. hrs.

Available as 498.12 Co-op/Internship for Art Therapy, 1-6 sem. hrs. Refer to General Courses.

**499 MASTER'S THESIS**  
1-6 sem. hrs.

## MUSIC (MUS)

**Chairperson:** James Major. Office: Centennial East 230.

**Graduate Program Director:** Joe W. Neisler.

**Graduate Faculty:** G. Block, J. Boitos, P. Borg, A. Chavez, C. Collier, J. Dawson, M. Dicker, M. DiGiammarino, A. Favis, D. Feurzeig, S. Gentry, G. Hamilton, K. Hamilton, N. Hesselink, K. Keenan-Takagi, M. Kelly, J. Koch, W. Koehler, A. Larsen, A. Major, J. Major, C. Morenus, J. Neisler, R. Newson, S. Parsons, B. Peppo, K. Randles, K. Risinger, D. Snyder, S. Steele, C. Stokes, S. Taylor, M. Vought, D. Williams.

Two graduate degrees are offered by the Music Department: Master of Music Education and the Master of Music. The Master of Music degree includes three sequences: Performance, Music Therapy, and Theory/Composition.

### General Admission Requirements

Admission to master's degree programs requires a bachelor's degree and a minimum undergraduate GPA of 2.6 for the last 60 hours of undergraduate enrollment. Candidates must submit a placement credential file OR three professional letters of recommendation, and present a live performance audition (taped auditions may be submitted for provisional admission). The GRE is not required.

### Additional Admission Requirements by Degree and Sequence

#### Master of Music Education

Requires an undergraduate degree in music education or equivalent, a copy of teacher's certification OR written evidence of teaching ability and a projected date for completion of certification, a taped or live entrance audition, and an on-campus or telephone interview with music education faculty.

Entrance into the Master of Music Education degree requires that the student has completed or will complete equivalency requirements for teacher certification. Students with an undergraduate degree in music may complete the Master of Music Education while simultaneously completing the requirements for certification.

#### Master of Music

**Performance Sequence:** Required is a live entrance audition and interview. Taped auditions may be submitted for provisional admission.

**Music Therapy Sequence:** An undergraduate degree in music is required, as well as certification as a registered music therapist or equivalent, including the six-month internship, a taped or live entrance audition, a 250-word comprehensive biographical statement, and an on-campus or telephone interview with music therapy faculty.

Entrance into the Music Therapy sequence requires that the student has completed or will complete equivalency requirements for music therapy certification. Equivalency includes a degree in music and the following: Music 194, 294, 298, 340, 341, 360, 362. Depending upon the student's undergraduate studies, some may need to take the following: 9 hours selected from Music 111, 113, 115, 117, 122, 126; BSC 181; PSY 111, 232, 346; and SOC 106 or ANT 180.

**Theory/Composition Sequence:** The following are required for admission to the sequence: Two examples of recent compositions; two examples of recent analytical writing; a taped or live entrance audition; and an on-campus or telephone interview with music theory/composition faculty.

### Curriculum Requirements

**Entrance Placement Examinations:** Prior to the first semester of enrollment, all students must take placement examinations in music theory and music history/literature. Deficiencies are removed by taking the necessary review courses.

**Ensemble Requirement:** All Music graduate students who are full-time and in-residence Music Majors are required to enroll and perform in a faculty conducted ensemble. The choice of ensemble must be approved by the ensemble director and the applied studio faculty. Students pursuing the MM Performance Sequence are required to enroll in an ensemble for a minimum of two semesters. Students pursuing the MMed, MM Music Therapy Sequence and the MM Theory/Composition Sequence are required to enroll in an ensemble for a minimum of two semesters. Additional ensembles may be taken with the approval of the ensemble director, the applied faculty and the Music Graduate Program Director. The ensemble requirement may be waived for Summers-Only students or part-time students with the approval of the advisor and the Graduate Program Director. All graduate assistants must be enrolled in a major ensemble each semester that they hold an assistantship.

**Chamber Music:** All students pursuing the MM Performance are encouraged to enroll in a Chamber Music Ensemble 483 or 439 for a minimum of one semester.

**Master of Music Education** is a 32 or 34 hour program depending on choice of exit requirement. Required are: MUS 396, 459, 470, 471, 472, 473; 2 semesters of ensemble selected from 365, 481.05, 481.06 (01), 481.06 (02), 481, 439.70, 482, 439.90, 484, 480, 488 and 439.71; 4 hrs. of electives which must be approved by a music education graduate advisor; and development of an 8 hour concentration of courses with a graduate advisor. A concentration of courses may include, but not limited to, applied music, music education, conducting, jazz, special education, music technology, theory/composition, music history/literature, and music therapy.

Exit requirements for the MME include: a written comprehensive examination and a 4 hr. thesis MUS 499; OR a 2 hr. professional practice music education project MUS 498.01; OR 4 additional hours to complete a non-thesis/project degree.

This degree has a Summers-Only Plan of Study available. The ensemble requirement may be waived for summers-only students or part-time students with the approval of the advisor and the Music Graduate Program Director.

**Master of Music** is a 32 - 36 hour program, depending upon the sequence chosen.

**Performance Sequence** (32 hrs.) Required are: 12 hrs. of applied music courses, MUS 430-438 or 440; 2 hrs. of music pedagogy and literature courses, MUS 330 or 495 for conducting; MUS 407, 457, 9 hours of electives in a cognate music field may be selected from, but not limited to: Music Technology, Music History, Music Theory, Music Education, Music Therapy, Music Business, Applied Music and Conducting, Jazz Studies, Ensembles and Non-Music Courses; 2 semesters of ensemble selected from MUS 365, 481.05, 481.06 (01), 439.70, 482, 439.90, 484, and 439.85; 488 and 439.71 may satisfy the requirement with the permission of the Choral Department.

The exit requirements for the Performance Sequence include: a written comprehensive examination and one recital MUS 496. The comprehensive exam must be taken in the semester during which the student will graduate.

**Music Therapy sequence** (35-36 hrs.) Required are MUS 396, 457, 459, 460, 462, 465; 3 hrs. in an additional styles course selected from MUS 391, 392, 394, 395, or 451; 2 semesters of ensemble selected from 365, 439.85, 488, 480, 439.90, 439.71, 481.05, 481.06 (01), 481.06 (02), 481, 439.70, and 482; 3 hrs. of a music therapy internship MUS 498.02, and 6 hrs. of 300-400 level courses in a supportive fields subject area (300 level music therapy courses may not be included as part of the sequence). Supportive fields can be selected from: psychology, education, speech pathology and audiology, sociology, and social work.

Exit requirements for the Music Therapy Sequence include a written comprehensive examination and 4 hrs. of thesis MUS 499 OR 3 hrs. of a professional practice clinical music therapy project (MUS 498.12).

**Theory/Composition Sequence** (33 hrs.) Required are 12 hrs. minimum in Theory/Composition courses selected from MUS 400, 402, 405 and other theory/composition courses which focus on composition/analytical technique; MUS 396, 407, 457; 3 hrs. in an additional styles course selected from 391, 392, 394, 395 or 451; 2 semesters of ensemble selected from 365, 488, 484, 480; 439.90, 481.05, 481.06 (01), 481.06 (02), 481, 439.70, 482, 439.85 and 439.80; and 3 hrs. of music technology electives.

Exit requirements for the Theory/Composition Sequence include: a written comprehensive examination and 4 hrs. of Thesis MUS 499 OR 4 hrs. of an Exit Composition MUS 499.

### Concentration in Music Technology

Music students wishing to augment their regular studies with computer-related knowledge and skills may pursue 9 hours of concentrated courses in music technology. The 9 hours can be taken from the following: MUS 387, 388, selected 389's and 393's, 400, 491, 498.09 or ART 359). A culminating project may be performed in conjunction with a sequence exit requirement.

### International Students

Please refer to the international student admissions requirements elsewhere in this catalog.

### Academic Adviser

All new graduate students must meet with the Music Graduate Program Director/Graduate Adviser during the first two weeks of their first semester and submit a Plan of Study which is a requirement for graduation.

## Courses

### 301 COMPUTER ARTS APPLICATIONS 1 sem. hrs.

Variable topic course that focuses on the application of computer software to solving studio, performance, and production problems in the arts. Prerequisite: Consent of instructor. May be repeated if content different. Also offered as ART/THE 301.

### 303 COUNTERPOINT 2 sem. hrs.

Introduction to counterpoint in Renaissance (16th century) and Baroque (18th century) styles. Prerequisites: MUS 201 or 203 or consent of instructor. May be repeated for credit.

### 304 ORCHESTRATION 2 sem. hrs.

Introduction to writing for ensembles of strings, winds, percussion, or voices. Prerequisites: MUS 201 or 203 or consent of instructor.

### 330 PEDAGOGY AND LITERATURE 2 sem. hrs.

Methods of teaching class and individual instruction; emphasis on techniques and a comparison of various teaching procedures. Survey of important literature and composers for each medium. (Brass, woodwind, percussion, voice, strings, piano, organ, guitar). May be repeated for credit. More than one area may be taken concurrently.

### 340 INFLUENCE OF MUSIC UPON BEHAVIOR 3 sem. hrs.

A study of the cultural, physiological, and psychological aspects of music with applications to the music therapy field. Prerequisite: Consent of instructor.

### 341 MUSIC IN THERAPY 3 sem. hrs.

A study of the theory, current practices, and research in the field of music therapy. Prerequisite: MUS 340 or consent of instructor.

### 350 SOFTWARE DESIGN IN THE ARTS II 3 sem. hrs.

Designing online digital projects for the Internet which use Web and multimedia techniques to create aesthetic models for art, music, and theatre expression. Prerequisite: ART/MUS/THE 387 or consent of instructor. Also offered as ART/THE 350.

### 353 COMPUTER MUSIC NOTATION 3 sem. hrs.

Study of computer-based music printing and an introduction to MIDI for note entry and proof reading of musical scores. Prerequisite: Consent of instructor. Also offered as ART/THE 353.

### 354 SEQUENCING AND DIGITAL AUDIO 3 sem. hrs.

Study of music synthesis through MIDI sequencers, digital sound editing and recording, and the integration of digital audio and MIDI. Prerequisite: Consent of instructor. Also offered as ART/THE 354.

**360 INTRODUCTION TO PSYCHOMUSICOLOGY**  
3 sem. hrs.

An introduction to the psychology of music behavior and cognition. Topics include music perception, memory, and learning and their relation to the sensory, formal, and expressive properties of music.

**365 OPERA PRACTICUM**  
1 sem. hr.

Experience in opera/musical theatre staging and performance. Work ranging from set construction to leading roles. Prerequisite: By audition/consent of instructor. May be repeated.

**371 MUSIC FOR THE EXCEPTIONAL CHILD**  
3 sem. hrs.

Trends in music education for exceptional children. Techniques and materials for a functional program of singing, playing, listening, and creative activities.

**387 SOFTWARE DESIGN IN THE ARTS**  
3 sem. hrs.

Designing and programming microcomputer based software which solve particular applications problems in the fine arts. Prerequisite: Consent of instructor. Also offered as ART 387 and THE 387. Materials charge optional.

**388 SELECTED TOPICS IN ARTS TECHNOLOGY**  
3 sem. hrs.

Varied emphasis reflecting integration of computers with digital sound/graphic technologies and authoring tools for applications in the arts. May be repeated if content different. Prerequisite: MUS 386 or consent of instructor. Also offered as ART 388 and THE 388. Materials charge optional.

**391 MUSICAL STYLES OF THE RENAISSANCE PERIOD**  
3 sem. hrs.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 253 or graduate standing.

**392 MUSICAL STYLES OF THE BAROQUE PERIOD**  
3 sem. hrs.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 253 or graduate standing.

**394 MUSICAL STYLES OF THE CLASSICAL PERIOD**  
3 sem. hrs.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 254 or graduate standing.

**395 MUSICAL STYLES OF THE ROMANTIC PERIOD**  
3 sem. hrs.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 254 or graduate standing.

**396 MUSICAL STYLES OF THE TWENTIETH CENTURY**  
3 sem. hrs.

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 254 or graduate standing.

**402 CURRENT ANALYTICAL TECHNIQUES**  
3 sem. hrs.

Study and application of analysis systems including those of Schenker, Hindemith, information theory, set theory, and computer analysis. Prerequisite: MUS 307 or acceptable proficiency on theory placement examination.

**405 COMPOSITION**  
3 sem. hrs.

Advanced individual study and direction in music composition at the graduate level. May be repeated for credit. Prerequisite: MUS 305 or consent of instructor.

**406 COMPUTER PERFORMANCE ARTS STUDIO**  
1-3 sem. hrs.

Creative and interdisciplinary experiences in solo and ensemble performance integrating computer technology with music, dance, performance art, or theatre production. Prerequisite: Consent of instructor. May be repeated if content different. Also offered as ART/THE 406.

**407 ANALYSIS FOR PERFORMERS**  
3 sem. hrs.

Survey of contemporary approaches to music analysis with emphasis on performance applications. Prerequisite: Acceptable proficiency on theory placement examination.

**430-432, 434-438, 440 APPLIED MUSIC**  
2 or 3 sem. hrs.

Advanced individual study and direction in music performance at the graduate level. 430 Conducting, 431 Brass, 432.10 Harp, 434 Percussion, 435 Piano, 436 Strings, 436.80 Guitar, 437 Voice, 438 Woodwinds, 440 Piano accompanying. May be repeated for credit. Permission to enroll must be obtained from appropriate coordinator.

**439 GRADUATE CHAMBER MUSIC ENSEMBLE**  
1 sem. hr.

Study and performance of chamber music in any suitable combination of instruments or voices. May be repeated for credit. Prerequisite: audition and consent of instructor.

**451 SELECTED TOPICS IN MUSICOLOGY**  
3 sem. hrs.

A variable content course covering the music of a composer, a country, a style, a medium, a genre. May be repeated for credit with different content; maximum of nine hours to be counted toward a degree.

**457 MUSIC RESEARCH: SOURCES AND METHODS**  
3 sem. hrs.

Critical examination of musical source materials, survey of research practices in music and practice in writing about music.

**459 APPLICATION OF SYSTEMATIC RESEARCH METHODS TO MUSIC**  
3 sem. hrs.

Systematic research methods in music applied to individualized descriptive and experimental music research topics and critical evaluation of music research.

**460 RESEARCH IN MUSIC THERAPY**  
3 sem. hrs.

Study of single subject design tradition with emphasis on appropriate employment of repeated measurement techniques.

**462 SEMINAR IN MUSIC THERAPY****3 sem. hrs.**

Study of current practices in the music therapy field with emphasis on current literature and new directions.

**465 CLIENT RIGHTS IN MUSIC THERAPY****3 sem. hrs.**

Study of necessary legal systems to ensure the rights of clients receiving rehabilitative and educational services.

**469 DESIGN AND AESTHETIC ISSUES IN ARTS TECHNOLOGY****3 sem. hrs.**

Provides foundation for further graduate study in arts technology by introducing students to design and aesthetic issues related to multimedia and the digital arts. Prerequisite: Arts technology major or consent of instructor. Also offered as ART/THE 469.

**470 FOUNDATIONS OF AMERICAN MUSIC EDUCATION****2 sem. hrs.**

Sociological and philosophical evolution in music education. Development of familiarity with the literature and investigative skills in the discipline.

**471 MEASURING AND EVALUATING MUSIC BEHAVIOR****2 sem. hrs.**

Study of measurement theory, standardized tests, test construction and interpretation. Measurement of music aptitude, achievement, performance, aesthetic response, preference, appreciation.

**472 SIGNIFICANT DEVELOPMENTS IN MUSIC EDUCATION CURRICULA****3 sem. hrs.**

Study of catalysts for curricular change throughout all aspects of music education. Reform, content and objectives, evaluation, human rights, technology.

**473 PSYCHOLOGY OF MUSIC LEARNING****3 sem. hrs.**

Detailed study of topics concerning differential music behavior and perception. Includes the mechanics of hearing, music memory, learning, and responses.

**480 ADVANCED COMPUTER TOPICS IN ART****3 sem. hrs.**

Intensive study of an announced topic exploring mainstream and experimental computer issues related to the creation of digital, MIDI, and notational representations of music. Prerequisites: ART, MUS, or THE 350 and 387, or consent of instructor; Arts Technology major. May be repeated if content differs.

**481-488 PERFORMING ORGANIZATIONS****1 sem. hr.**

Participation at the graduate level in the major organizations: Wind Symphony, Concert, University, or Marching Band, 481; Symphony Orchestra, 482; Chamber Wind Ensemble, 483; Concert Choir, 484; Treble Choir, 486; Civic Chorale, 488. May be repeated for credit.

**490 DIRECTED PROJECTS IN ARTS TECHNOLOGY****1-6 sem. hrs.**

Arts technology practicum for graduate students. Designed to integrate fine arts and technology skills in an intensive project environment. Prerequisite: Consent of arts technology program advisor. A maximum of 6 hours may be counted toward a master's degree. May be repeated for credit. Also offered as ART/THE 490.

**491 INTERNSHIP IN COLLEGE TEACHING IN MUSIC****3 sem. hrs.**

Credit for the course is given in C&I (see C&I 491).

**495 PRACTICUM IN CONDUCTING****2 sem. hrs.**

An inservice conducting experience with community and university ensembles for graduate students involved in applied conducting. May be repeated for credit; maximum of nine hours to be counted toward a degree. Prerequisite: Applied Conducting, MUS 430.

**496 GRADUATE RECITAL****1 sem. hr.**

A public performance in the student's principal applied area of instruction. Course may be repeated once. Consent of Graduate Adviser required.

**498 PROFESSIONAL PRACTICE IN MUSIC****1-3 sem. hrs.**

Provides graduate students with the opportunity to obtain supervised work experience in music. Available as 498.01 Music Education, 498.02 Music Therapy Internship for 1 sem. hr. (may be repeated to a maximum of 4 hours), 498.03 Music Business for 1-3 sem. hrs., 498.04 Music Performance for 1-3 sem. hrs., or 498.12 Music Therapy Clinical Project for 3 hrs. (MUS 398 and project committee consent are prerequisites for MUS 498.12). Refer to General Courses.

**499 MASTER'S THESIS****1-6 sem. hrs.****THEATRE (THE)**

**Chairperson:** Fergus Currie. Office: Centennial West 212.

**Graduate Program Director:** Kim Pereira.

**Graduate Faculty:** L. Adams, D. Alley, D. Benelli, D. Browder, C. Brown, F. Currie, C. deVeer, A. Goldfarb, M. Hampton, A. Haugo, J. Langenfeld-Rial, C. MacLean, J. McLaughlin-Gray, P. O'Gara, L. Orr, K. Pereira, E. Reitz Mullenix, J. Poole, P. Ritch, W. Ruyle, T. Schenck, J. Stark, L. Thompson-Merriman, J. Urice, D. Wilhelm, S. Zeck, S. Zielinski.

Three graduate degrees are offered by the Theatre Department: Master of Arts, Master of Science, and Master of Fine Arts. The M.A. and M.S. degrees are general graduate degrees based on the presumption that the student should experience a broad range of courses covering most aspects of theatre. The Master of Fine Arts is generally considered the appropriate terminal degree program for persons in the performance/production areas of theatre.

**Master of Science**

The Master of Science degree is awarded to a student who has completed a minimum of 32 hours in theatre or approved related courses, and has completed a thesis or passed a depart-

mental comprehensive examination. The Master's degree candidate must take a series of courses which includes the following: Theatre 497, included in 9 hours of history/theory-criticism with at least 3 in history and 3 in theory/criticism; 3 hours in acting; 3 hours in directing; 3 hours in design/technical theatre (costume, scenic or lighting design); and 14 hours of approved electives.

### Master of Arts

The Master of Arts degree is awarded to a student who has completed the requirements outlined above. In addition, the student must have completed the following requirements: the student must have earned credit for a minimum of two years of a foreign language at the college level, or must demonstrate a reading knowledge of a foreign language. This latter requirement is met by passing an examination administered by the appropriate foreign language faculty or a reading language proficiency test. The student must also have earned a minimum of 32 semester hours of credit in Humanities and the Social Sciences in addition to work in foreign language. These requirements may be met by satisfactory work at either the graduate or undergraduate level.

### Admission Requirements

Students who have maintained an average of 3.0 or more for the last 60 hours of undergraduate education and have a Bachelor's degree are eligible for admission. Students who have fewer than 36 undergraduate hours in theatre, or who have significant deficiencies in their theatre background, may be admitted. In these instances the students will receive a letter from the Chair of the Graduate Committee or the Department Chair suggesting undergraduate courses which must be taken as deficiencies in addition to the 32 hours for the Master's degree. Students are required to submit three recommendations and one example of scholarly writing for consideration.

Ordinarily, students who apply during the last semester of their senior year of undergraduate school will be admitted provisionally by the Graduate School with the statement, "Pending receipt of Bachelor's degree."

### Master of Fine Arts

The Master of Fine Arts degree is a 60-hour minimum program that will take most students three years to complete. It emphasizes both theory and practice. Candidates for the degree are expected to demonstrate proficiency in at least one of the following areas: Acting, Costume Design, Directing, Scene Design. Candidates must demonstrate the ability to understand the conceptual basis of their art and to articulate that understanding to others. The M.F.A. is a professionally oriented degree that assumes that the student will be competent as a practitioner and teacher. Therefore, each candidate will be required to complete Theatre 497 and a supervised experience in college teaching. Professional Practice (1-12 hours) is available in professional/educational theatres for candidates meeting eligibility requirements.

### Admission To The M.F.A. Program

All regular criteria for admission to a terminal degree program in the Graduate School of the University and for graduate study in Theatre will apply with the exception of the GRE requirement.

Prospective graduate students will be considered for admission to the Master of Fine Arts program after completing an audi-

tion/interview. Each area faculty will determine the admission of candidates in their area. In their second semester admitted M.F.A. candidates will be evaluated for retention in the program. Subsequent annual reviews will be held to determine continuing retention.

### Academic Advisers

A temporary Portfolio Committee will be assigned upon admission. If a candidate is retained after the initial annual evaluation, the Chair of the department, in consultation with the student and faculty whom the Chair deems appropriate, will select the candidate's permanent Portfolio Committee. The committee Chair must come from the student's studio area.

### Transfer Credit

A student who does not have an earned master's degree usually may present no more than six semester hours of credit from another college or university for use in meeting the requirements of the M.F.A. degree. However, a student may present all earned hours from an M.A./M.S. program in Theatre at Illinois State University for use in meeting these requirements.

The total hours required for a student with an earned master's degree will be based on an evaluation of the student's portfolio and academic record. However, the final determination will not be made until the student has completed a minimum of six semester hours in his/her major area of emphasis. The student's M.F.A. committee will supervise all evaluations. Refer to M.F.A. Transfer Credit in the Fields of Study and Degrees Granted section.

A minimum of 32 hours must be taken at Illinois State University.

### Residency

A student without an earned master's degree must complete a residency requirement of at least four semesters with at least two of them being full-time, consecutive semesters. A student with an earned master's degree must complete a residency requirement of at least two full-time, consecutive semesters. Summer session may be counted toward the two consecutive semester requirement.

### The M.F.A. Portfolio

Each semester of enrollment the M.F.A. candidate will enroll in Theatre 501, M.F.A. Portfolio, for one hour credit. The portfolio is the backbone of the Master of Fine Arts program. It is designed to ensure the regular and systematic evaluation of the student's progress. The portfolio is a collection of materials, including examples of the student's work where appropriate, reviews, evaluations and other artifacts, which may record or characterize the student's experience in the program. The portfolio also contains the student's responses to evaluations as well as statements from the Portfolio Committee which provide direction for the student's future work in the program.

The student must have a portfolio evaluation for each full semester he/she is in the program. The written results of that evaluation are included in the portfolio. The portfolio provides a cumulative record of the student's progress which is carried over from semester to semester.

Finally, the portfolio, with its record of the student's activities in the program, provides the major objective basis for awarding the degree. Although the student may engage in major creative projects during his/her program, the portfolio stands in lieu of the traditional thesis or creative thesis project which is the culminating experience in many programs.

**Qualifying/Comprehensive Examination:** A qualifying examination is required prior to the exit portfolio presentation. It may be comprehensive to the extent that it examines the candidate's knowledge of the discipline of theatre; it may include graduate work the student is presenting for the degree; and it may include demonstration of proficiency. The examination will be conducted by the student's M.F.A. Portfolio Committee. The student may request that other faculty members with whom he/she has taken course work participate in the qualifying examination.

**Final Portfolio Review and Exit Interview:** To be eligible for the exit portfolio presentation, the student must (1) present a grade average of B or above with not more than six (6) hours of C; (2) have completed (or will complete in the current semester) two semesters of full-time resident study; (3) have a plan of study on file with the Graduate School; (4) have passed a qualifying examination; and (5) pass a final portfolio review and exit to be conducted by his/her MFA Committee. The format of this review and exit will be determined by the MFA Committee, who will, when the work is deemed satisfactory, recommend the student to the appropriate studio area for graduation. At least one week before the Graduate School graduation notification deadline, the Department Graduate Faculty will meet to hear the studio area's recommendations. Once the Graduate Faculty has approved the student's graduation the student will be recommended to the Graduate School for the granting of the degree.

#### Master of Fine Arts in Theatre

Students should consult with their MFA Portfolio Committees and the Department Graduate Advisor for details and the calendar of the final portfolio review and exit. While no student is guaranteed graduation, those whose work is deemed unsatisfactory may be presented opportunities for remediation by their Portfolio Committees.

#### Typical M.F.A. Program

Students will encounter a range of experiences that will prepare them to be competent in their specialty. The M.F.A. candidate is required to complete a minimum of 18 hours in his/her studio area at Illinois State University. Additional experiences will ordinarily include:

- A. 12 hours from the areas of theatre history, theatre criticism and theory, and dramatic literature, including Theatre 497.
- B. 6 hours in performance-related courses outside the student's specialty.
- C. 3 hours in college teaching.

After being admitted to one area of concentration in the M.F.A. program and completing 12 hours of course work under the guidance of the Portfolio Committee, the student, with support from his/her Portfolio Committee, may request an audition for a second area of concentration. Such requests should be made in writing to the Graduate Committee and detail the reasons why such action will aid the scholarly and artistic growth of the student. If admitted in two areas, the student must complete a minimum of 18 hours in each area. A student who undertakes two areas of concentration should expect to be enrolled beyond the normal three-year period. Permission to audition in a second area will be granted only in exceptional cases. The Portfolio Committee may prescribe experiences in addition to the above depending on the student's demonstrated competencies.

A maximum of one year may be taken in an off-campus internship program. Students are required to enroll in Theatre 501, M.F.A. Portfolio, during each semester of residency.

## Courses

### 300 TOPICS IN THE LITERATURE OF THE THEATRE 3 sem. hrs.

Examination of dramatic literature, which may also include dramatic criticism, analysis systems, discussions of plays in performance and/or dramatic/theatrical theory. Course content will vary. Prerequisite: THE 100. May be repeated.

### 301 COMPUTER ARTS APPLICATIONS 1 sem. hrs.

Variable topic course that focuses on the application of computer software to solving studio, performance, and production problems in the arts. Prerequisite: Consent of instructor. May be repeated if content different. Also offered as MUS/ART 301.

### 309 DIRECTED PROJECTS 1-3 sem. hrs.

Individually supervised study for the advanced student. Prerequisite: Consent of instructor. May be repeated.

### 313 ACTING II 3 sem. hrs.

Analysis, rehearsal and performance of representative scripts. Prerequisites: THE 110 or equivalent and consent of acting faculty. Not for credit if had THE 113.

### 314 ACTING STYLE: DISCOVERY AND PERFORMANCE 3 sem. hrs.

Performance styles of a particular playwright, period, or medium such as Realism (.01), Shakespeare (.02), Acting on Camera (.03), Indian Theatre (.04), Special Topics (.05), Improvisation (.06), and Animals (.07). Prerequisites: THE 211, 220, and consent of Acting faculty.

### 317 VOCAL TECHNIQUE FOR THE ACTOR II 3 sem. hrs.

Advanced studies in vocal discipline for actors, including exercises in breath control, relaxation, alignment, tonal focus and articulation. Prerequisites: THE 211 or equivalent and consent of Acting faculty.

### 321 STAGE MOVEMENT II 3 sem. hrs.

Advanced movement techniques, including study of period dances, stage violence, and mime. Prerequisites: THE 220 and consent of Acting faculty.

### 322 AUDITIONING 3 sem. hrs.

Preparation, performance and evaluation of numerous audition projects; discussion of the actor's search for employment in the professional theatre. Prerequisite: THE 211, 220, and 6 hrs. THE 314, and consent of Acting faculty.

### 324 STAGE MOVEMENT III 3 sem. hrs.

Continuation of movement training, varying from semester to semester in special areas including mime, stage combat, mask, and/or circus techniques. Prerequisites: THE 220 and consent of Acting faculty. May be repeated; max 9 hrs.

**330 THEATRICAL COSTUME DESIGN**  
3 sem. hrs.

Research and practical application to theatrical costume designing: use of dramatic analysis. Prerequisite: THE 130. May be repeated to total 6 hrs. toward master's degree. M.F.A. student may enroll for credit in each term of residency.

**331 HISTORY AND STYLES OF STAGE COSTUMING I**  
3 sem. hrs.

The costume's reflection of cultural and social milieu and the costume's application to the stage: Ancient Egypt to 1625. Prerequisite: THE 130.

**332 COSTUME CONSTRUCTION**  
3 sem. hrs.

Pattern drafting, draping, fitting, and specialized construction techniques for the theatrical costume craftsman. Prerequisites: THE 130 and consent of instructor. Lab arranged.

**333 COSTUME CRAFTS**  
3 sem. hrs.

Theory and techniques of costume construction and use of special materials. Prerequisite: THE 130. Materials charge optional.

**334 HISTORY AND STYLES OF STAGE COSTUMING II**  
3 sem. hrs.

The costume's reflection of cultural and social milieu and the costume's application to the stage: 1625 to 1900. Prerequisite: THE 130.

**340 DIRECTING WORKSHOP**  
3 sem. hrs.

Principles and methodologies of stage direction applied to particular problems in a workshop format. Prerequisite: THE 240. May be repeated up to 6 hrs. toward degree program.

**341 ORAL INTERPRETATION OF LITERATURE II (Directing/Performance)**  
3 sem. hrs.

Group forms of Interpretation Readers--Theatre and Chamber Theatre, with experiences to provide the student with practical applications of theory and principle. Prerequisite: THE 101 or consent of instructor.

**342 INTRODUCTION TO STAGE MANAGEMENT**  
3 sem. hrs.

Introduction and application of basic principles of stage management, with emphasis on the paperwork and procedures required in theatrical productions. Prerequisites: THE 102, 130, and 160 or consent of instructor.

**344 PRINCIPLES OF THEATRE MANAGEMENT**  
3 sem. hrs.

Introduction and demonstration of the practices and procedures of theatre management in today's theatre. Lab arranged.

**345 ADVANCED THEATRE MANAGEMENT**  
3 sem. hrs.

Intensive work in advanced management techniques for arts organizations, including management practices, union contracts, payrolls, budgeting and income controls. Prerequisite: THE 344 or consent of instructor.

**348 PLAYWRITING**  
3 sem. hrs.

Playwriting techniques of selected masters with practical application of techniques in writing original plays. Also offered as ENG 348.

**349 ADVANCED STAGE MANAGEMENT**  
3 sem. hrs.

Application of advanced stage management skills with emphasis on procedures used in professional Equity theatrical productions, dance, opera, and touring. Prerequisite: THE 342 or consent of instructor.

**350 SOFTWARE DESIGN IN THE ARTS II**  
3 sem. hrs.

Designing online digital projects for the Internet which use Web and multimedia techniques to create aesthetic models for art, music, and theatre expression. Prerequisite: ART/MUS/THE 387 or consent of instructor. Also offered as ART/MUS 350.

**353 COMPUTER MUSIC NOTATION**  
3 sem. hrs.

Study of computer-based music printing and an introduction to MIDI for note entry and proof reading of musical scores. Prerequisite: Consent of instructor. Also offered as ART/MUS 353.

**354 SEQUENCING AND DIGITAL AUDIO**  
3 sem. hrs.

Study of music synthesis through MIDI sequencers, digital sound editing and recording, and the integration of digital audio and MIDI. Prerequisite: Consent of instructor. Also offered as ART/MUS 354.

**359 COMPUTER-BASED ART AND GRAPHIC DESIGN**  
3 sem. hrs.

Application of advanced two- and three-dimensional graphics programs to solve creative problems in the visual and theatrical arts. Prerequisite: ART 386, MUS 386, THE 386 or consent of instructor. Also offered as ART 359. Materials charge optional.

**360 PRINCIPLES OF DANCE PRODUCTION**  
3 sem. hrs.

Principles of public relations, publicity, costuming, lighting, and management used in producing dance performances. Formerly HPE 368.

**361 ADVANCED STAGE LIGHTING**  
3 sem. hrs.

Lighting design for proscenium and non-proscenium production; attention to system design. Prerequisites: THE 258, 261 or consent of instructor. Lab arranged.

**362 STAGE DESIGN**  
3 sem. hrs.

Nature, function, and aesthetics of scene design, with practice in composition. Prerequisites: THE 160 and 258 or consent of instructor.

**363 ADVANCED DESIGN**  
3 sem. hrs.

Intensive work in the areas of design and rendering for the stage; emphasis upon new materials and techniques. Prerequisite: THE 362. May be repeated to total 6 hrs. toward master's degree. M.F.A. student may enroll for credit in each term of residency.

**364 ADVANCED PROJECTS IN DESIGN**

2-4 sem. hrs.

A study of design and production problems as they relate to productions being mounted by the Theatre Department. Emphasis placed upon creative and collaborative aspects of producing theatre. May be repeated. A maximum of six hours to be applied toward the M.S. or M.A. degree.

**365 SCENE PAINTING**

3 sem. hrs.

Development of the skills necessary for the organization, preparation, and execution of painted scenery for the stage. Materials charge optional.

**366 RENDERING TECHNIQUES FOR THE STAGE**

3 sem. hrs.

A studio course investigating 2D and 3D graphic techniques for realizing theatrical designs. Content varies; various media and applications emphasized. Prerequisites: THE 130, 160, 258, 261, or consent of instructor. May be repeated. Maximum 6 hrs. toward degree program.

**367 SCENOGRAPHIC TECHNIQUES**

3 sem. hrs.

Exploration/application of advanced graphic techniques necessary in developing documents for use by the theatrical designer. Prerequisite: THE 258 or consent of instructor.

**370 HISTORY OF THE CINEMA**

3 sem. hrs.

Historical and aesthetic development of the cinema. Course content will vary. Lab: Screening of significant films. May be repeated; max 6 hrs.

**371 FILM THEORY AND CRITICISM**

3 sem. hrs.

Theories relating to art of film making. Prerequisite: THE 170 or consent of instructor.

**373 HISTORY AND PHILOSOPHY OF DANCE II**

3 sem. hrs.

History, philosophy, and development of dance from the 17th century to the present. Approaches, styles, and contributions of leading dance personalities. Formerly HPE 367.

**376 THEATRE HISTORY I**

4 sem. hrs.

History of drama and theatrical production from its origin to approximately 1775. Prerequisite: THE 100.

**377 THEATRE HISTORY II**

4 sem. hrs.

History of drama and theatrical production from the late eighteenth century to the present. Prerequisites: THE 100 and 376.

**378 SHAKESPEARE ON STAGE**

3 sem. hrs.

An intensive study of Shakespeare's plays in production. For the student with adequate familiarity with Shakespeare and his work. May be repeated once. Also offered as ENG 378.

**381 CREATIVE DRAMA PRACTICUM**

2-3 sem. hrs.

Practical experience in creative drama teaching by leading a class in drama under faculty supervision for a semester. Prerequisites: THE 280 and consent of instructor. The course is graded (A-F). May be repeated; max. 6 hrs. Includes clinical experiences 10 hours minimum, Type 10.

**385 PRINCIPLES OF THEATRE EDUCATION**

5 sem. hrs.

Philosophies of theatre education, teaching strategies, co-curricular programs, textbook analysis, professional organizations, and related field experience. Prerequisites: THE 285, C&I 216 with grade of C or better, or consent of instructor. Admission to Teacher Education. Includes clinical experiences, 5-100 hours, Type 1-5.

**387 SOFTWARE DESIGN IN THE ARTS**

3 sem. hrs.

Designing and programming microcomputer based software which solve particular applications problems in the fine arts. Prerequisite: Consent of instructor. Also offered as ART 387 and MUS 387. Materials charge optional.

**388 SELECTED TOPICS IN ARTS TECHNOLOGY**

3 sem. hrs.

Varied emphasis reflecting integration of computers with digital sound/graphic technologies and authoring tools for applications in the arts. May be repeated if content different. Prerequisite: THE 276 or consent of instructor. Also offered as ART 388 and MUS 388. Materials charge optional.

**400 INDEPENDENT STUDY**

1-4 sem. hrs.

Refer to Index for General Courses.

**402 THEATRE PRACTICUM**

1-3 sem. hrs.

Production experience in the areas of acting, costume, and scenery preparation, production crew, box office, and stage management. May be repeated.

**406 COMPUTER PERFORMANCE ARTS STUDIO**

1-3 sem. hrs.

Creative and interdisciplinary experiences in solo and ensemble performance integrating computer technology with music, dance, performance art, or theatre production. Prerequisite: Consent of instructor. May be repeated if content different. Also offered as ART/MUS 406.

**408 DIRECTED PROJECTS IN ACTING AND DIRECTING**

1-4 sem. hrs.

Individually supervised projects in acting and directing offered by contract in arrangement with graduate faculty. Repeatable. Prerequisite: Consent of instructor.

**412 ACTING STUDIO I: EARLY REALISM**

3 sem. hrs.

Development and refinement of essential acting techniques toward professional proficiency utilizing significant dramatic texts from the period of Early Realism. Prerequisite: Consent of instructor.

**413 VOICE STUDIO I**

3 sem. hrs.

Overview of professional theatre voice usage, from physiology to phonetics, leading into experimentation with acting texts. Prerequisite: Consent of instructor.

**414 MOVEMENT STUDIO I**

3 sem. hrs.

Techniques that deepen the student's physical awareness and use of the body for the theatre. Prerequisite: Consent of instructor.



**415 ACTING STUDIO II:  
SHAKESPEARE**  
3 sem. hrs.

Study and practice of essential acting techniques required by the classical structure and stylistic demands of the work of William Shakespeare. Prerequisites: THE 412; consent of instructor.

**416 VOICE STUDIO II**  
3 sem. hrs.

Continuation of professional training with advanced vocal techniques, including dialects, scansion and physicalization of Shakespeare texts. Prerequisites: THE 413; consent of instructor.

**417 MOVEMENT STUDIO II**  
3 sem. hrs.

Continued focus on honing the physical instrument, including an exploration of physical imagery and impulse through Shakespearean texts. Prerequisites: THE 414; consent of instructor.

**418 ACTING STUDIO III:  
PERIOD COMEDY**  
3 sem. hrs.

Study and cultivation of the fundamental conventions and acting techniques employed in the style of period comedy. Prerequisite: THE 412, 415, and consent of instructor.

**419 VOICE STUDIO III**  
3 sem. hrs.

Advanced theatre voice class focusing on meeting vocal demands in production assignments and in the heightened texts of period comedies. Prerequisites: THE 413, 416, and consent of instructor.

**420 MOVEMENT STUDIO III**  
3 sem. hrs.

Advanced work developing the physical instrument with special emphasis on Period styles. Prerequisites: THE 414, 417, and consent of instructor.

**421 CONCEPT AND STYLE**  
3 sem. hrs.

A seminar in the creative collaboration of the theatrical design team (directors, designers and dramaturgs) from the preliminary research to the final, unified production conceptualization. Prerequisites: THE 497; consent of instructor.

**422 VOICE STUDIO IV**  
3 sem. hrs.

A culminating theatre voice class focusing on the uses of voice in postrealist plays. Prerequisites: THE 413, 416, 419, and consent of instructor.

**423 MOVEMENT STUDIO IV**  
3 sem. hrs.

Special topics of advanced movement disciplines, chosen from: Mask, Stage Combat, Post-Modernism. Prerequisites: THE 414, 417, 420, and consent of instructor.

**424 ACTING STUDIO IV: POSTREALISM**  
3 sem. hrs.

Study and experimentation with the inherent stylistic acting demands in significant works of major postrealist playwrights. Prerequisites: THE 412, 415, 418, and consent of instructor.

**430 SEMINAR IN THEATRE COSTUME STUDIES**  
3 sem. hrs.

A seminar in theatre costume studies with the subject changing each time the course is offered. Seminar in Theatre Costume Studies may be repeated for up to 9 hours. Prerequisite: Graduate standing.

**440 DIRECTING STUDIO**  
3 sem. hrs.

Investigation into the skills and principles of stage directing over a broad range of genres and styles determined by instructor. May be repeated. Prerequisite: Consent of instructor.

**463 TWENTIETH CENTURY STAGE DESIGN**  
3 sem. hrs.

A lecture-seminar course investigating major designers and movements of twentieth century design for the stage.

**464 ADVANCED PROJECTS IN DESIGN**  
2-4 sem. hrs.

A study of design and production problems as they relate to productions executed by the Theatre Department. Prerequisite: Consent of instructor. May be repeated.

**465 ADVANCED PROJECTS IN DIRECTING**  
2 sem. hrs.

A study of the problems of directing as they relate to departmental productions and the labwork of the Directing Studio. May be repeated. Prerequisite: Consent of instructor.

**468 THEATRES AND AUDITORIUMS:  
PLANNING AND DESIGN**  
3 sem. hrs.

Technical problems in stage and auditorium design and planning: emphasis on stage rigging, lighting, and sound equipment. Laboratory. Prerequisite: THE 362.

**469 DESIGN AND AESTHETIC ISSUES IN  
ARTS TECHNOLOGY**  
3 sem. hrs.

Provides foundation for further graduate study in arts technology by introducing students to design and aesthetic issues related to multimedia and the digital arts. Prerequisite: Arts Technology major or consent of instructor. Also offered as MUS/ART 469.

**474 THE AMERICAN THEATRE**  
3 sem. hrs.

Development of the theatre, its dramatic literature, and its arts and crafts in America from its beginning to present.

**475 HISTORY OF THE MODERN THEATRE**  
3 sem. hrs.

Developments in stagecraft, theatre architecture, directing, acting, and theatrical theory from the late 19th century to the present.

**476 SEMINAR IN THEATRE HISTORY**  
3 sem. hrs.

A seminar in theatre history with the topic changing each time the course is offered. Seminar in Theatre History may be repeated for up to 6 hours.

**478 DRAMA FORM**  
3 sem. hrs.

Attitudes toward drama form from classical Greek to modern theatre are examined from the perspective of contemporary theories of the nature of dramatic action.

**479 DRAMA THEORY AND CRITICISM****3 sem. hrs.**

Theatre practice from the point of view of a contemporary aesthetic. Subject of investigation will change from semester to semester.

**480 ADVANCED COMPUTER TOPICS IN THEATRE****3 sem. hrs.**

Intensive study of an announced topic exploring mainstream and experimental computer issues related to the design of theatre productions in a variety of stage and interactive venues. Prerequisite: Arts Technology major and ART, MUS, or THE 350 and 387; or consent of instructor.

**490 DIRECTED PROJECTS IN ARTS TECHNOLOGY****1-6 sem. hrs.**

Arts technology practicum for graduate students. Designed to integrate fine arts and arts technology skills in an intensive project environment. Prerequisite: Consent of Arts Technology Program advisor. A maximum of 6 hours may be counted toward a master's degree. May be repeated for credit. Also offered as MUS/ART 490.

**497 INTRODUCTION TO RESEARCH METHODOLOGY IN THEATRE****3 sem. hrs.**

Selection of a research problem, collection of data, types of research, the research report, and use of the library and computer resources in connection with the research problem as applied to theatre history, acting, directing, playwriting, design, criticism, and teaching.

**498 PROFESSIONAL PRACTICE****1-12 sem. hrs.**

Refer to Index for General Courses.

**499 MASTER'S THESIS****1-6 sem. hrs.**

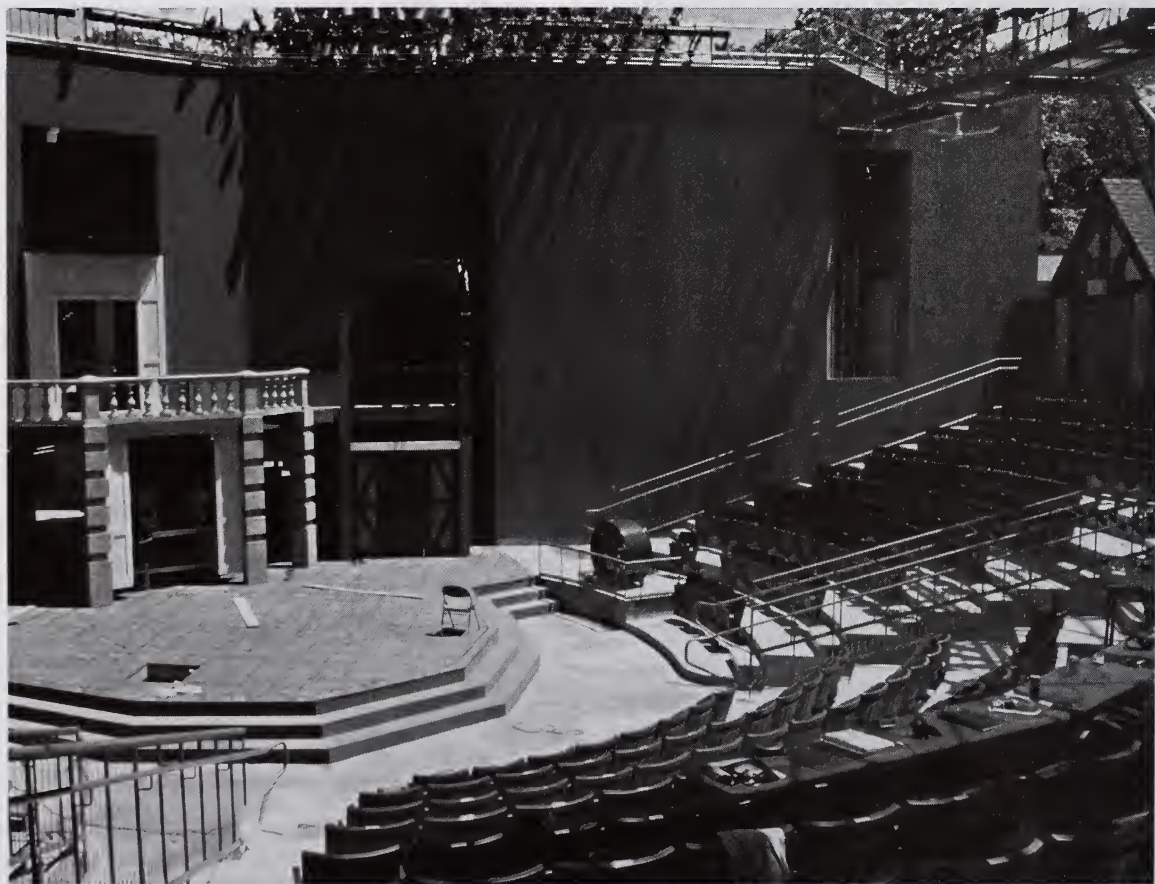
Refer to Index for General Courses.

**500 INDEPENDENT STUDY****1-4 sem. hrs.**

Refer to Index for General Courses.

**501 M.F.A. PORTFOLIO****1 sem. hr.**

A student accepted into the M.F.A. program must enroll for credit under the supervision of the Portfolio Committee Chairperson.



# MENNONITE COLLEGE OF NURSING

**Dean:** Nancy Ridenour. Office: 312 Edwards Hall.

## Mission

The mission of Mennonite College of Nursing is to educate undergraduate and graduate nursing students to serve the citizens of Illinois, the nation, and the global community. Mennonite College of Nursing acknowledges a particular responsibility to address the nursing and health care needs of urban and rural populations, including those who are vulnerable and underserved. The College of Nursing builds upon the educational foundation previously acquired by students. The College creates a dynamic community of learning in which reflective thinking and ethical decision-making are valued. The College is committed to the promotion of nursing scholarship at the national and international level through research, service, and practice. Mennonite College of Nursing is committed to being purposeful, open, just, caring, disciplined, and celebrative.

## Master of Science in Nursing

**Graduate Program Director:** Donna Konradi.

**Graduate Faculty:** S. Campbell, E. Fowles, B. Jeffers, D. Konradi, C. Mallory, J. McCray, N. Ridenour, B. Walpole, D. Wilson.

The College offers a Master of Science in Nursing degree designed to prepare nurses to function in selected advanced practice nursing roles, including family nursing practitioners and nursing systems administrators.

## Accreditation

The Master of Science in Nursing program is fully accredited by the National League for Nursing Accrediting Commission (NLNAC) 61 Broadway, New York, NY 10006; (212) 368-5555.

## Admission Requirements

Applicants to the Master of Science in Nursing must have: (a) a Bachelor of Science in Nursing degree from an NLN-accredited program or from a program accredited by the Commission on Collegiate Nursing Education (CCNE); (b) a minimum grade-point average of 3.0 for the last 60 semester hours of undergraduate course work; (c) two official transcripts of all prior collegiate academic work; (d) evidence of satisfactory completion of statistics, nursing research, and physical assessment courses with a grade of C or better at the baccalaureate level; and (e) official scores from the Graduate Record Examinations (GRE) General Aptitude Test; and (f) official score from the GRE Writing Assessment. The Graduate Application for Admission, transcripts, and GRE General Aptitude and Writing Assessment scores are submitted to the Illinois State University's Office of Admissions as indicated on the admissions application. In addition, the following documentation is to be forwarded directly to the Mennonite College of Nursing (Campus Box 5810, Normal IL 61790-5810): (a) evidence of licensure as a registered nurse in Illinois; (b) three letters of reference from persons qualified to assess the applicant's potential

to succeed as a graduate student, with one letter from a nursing faculty member in the student's baccalaureate program; (c) a resume; and (d) a 2-3 page essay outlining professional and educational goals. A personal interview with a Mennonite College of Nursing faculty member is required. Two years of recent full-time relevant clinical or administrative nursing experience is preferred.

## Degree Requirements

The Master of Science in Nursing is a 35-48 semester hour program (depending on sequence chosen) distributed among core, support, and nursing speciality courses. The thesis or comprehensive examination option must be selected. Students selecting the comprehensive exam option are also required to complete the two semester hour NUR 490 Synthesis Seminar course. All master's degree students complete either the Family Nurse Practitioner Sequence (32 semester hours) or the Nursing Systems Administration Sequence (21 semester hours) and 12 hours of core coursework (NUR 401, 403, 405, and 407).

The master's program is developed based on nationally recognized standards for graduate education in nursing. All courses applied toward the degree must be completed at the 400 level. In order to maintain clinical proficiency, students who have completed NUR 477 but who do not meet the requirements for graduation must enroll in ongoing practicum independent study (NUR 400) until graduation.

**Comprehensive Examination Option:** The comprehensive examination includes a written and oral component. The examination can only be taken twice. Students who do not successfully pass their first comprehensive examination attempt may not change to the thesis option.

## Family Nurse Practitioner (FNP) Sequence (32 semester hours, 12 hours core, and thesis or comprehensive examination)

The family nurse practitioner utilizes an aggregate-based practice model for direct health care services that integrates preventive and self-care measures, as well as the diagnosis and management of commonly occurring acute and chronic health conditions. The practice of the family nurse practitioner is based on knowledge areas from epidemiology, community, health care systems, family, nursing theory, pharmacology, advanced pathophysiology, and research.

In addition to the 12 hour core, there are 9 hours of support courses and 23 hours of specialty courses for the Family Nurse Practitioner Sequence. The support courses are NUR 431, 433 and 437. The specialty courses are NUR 471, 473, 475, and 477. Graduates of the program will be eligible to take the certification exam for Family Nurse Practitioners offered through the American Nurses Credentialing Center (ANCC) and American Academy of Nurse Practitioners (AANP).

## Nursing Systems Administration (NSA) Sequence (21 semester hours plus 12 hours core, and thesis or comprehensive examination)

Graduates are prepared to function at executive levels as innovative, collaborative leaders within changing health care envi-

ronments. This sequence utilizes courses available in cooperation with Illinois State University's College of Business. By studying both nursing and business, students are able to integrate knowledge gained from different perspectives and directly apply this knowledge in the evolution and management of health care systems.

In addition to the 12 hour core, there are 9 hours of support courses and 12 hours of specialty courses for the Nursing Systems Administration Sequence. The support courses are: ACC 468, MQM 421, and MQM 427. The specialty courses are: NUR 451, 479, 481, and 483. Graduates of the program will be eligible to take the exam for certification in Nursing Administration, Advanced (CNAA) offered through the American Nurses Credentialing Center (ANCC).

### Post-Master's FNP Certificate

Course work for the Family Nurse Practitioner (FNP) post-master's certificate is determined for each student following an assessment of the applicant's graduate nursing education transcript. Candidates for the post-master's FNP certificate are required to complete a minimum of 26 credits in the Mennonite College of Nursing at Illinois State University, including NUR 431 and 23 hours of specialty courses in the FNP sequence. A thesis or comprehensive examination is not required.

### Specific Academic Regulations

Information regarding regulations and procedures for Graduate Nursing students, advising/plan of study, Cardiopulmonary Resuscitation (CPR) certification, Universal Precautions competency, documentation of Registered Nurse Licensure, Professional Nurse Traineeships, Endowed Scholarships and other private funding sources is available in the Mennonite College of Nursing administrative office.

### Courses

#### 400 INDEPENDENT STUDY

1-4 sem. hrs.

See General Course Offerings.

#### 401 THEORETICAL FOUNDATIONS OF NURSING AND HEALTH CARE

3 sem. hrs.

Focuses on nursing theory in advanced practice. Specific nursing theories and shared theories from other disciplines are examined. Prerequisite: Graduate standing in Nursing or consent of Graduate Director.

#### 403 PROFESSIONAL ROLES AND ISSUES

3 sem. hrs.

Theories and concepts relevant to professional, ethical, legal, and policy issues germane to advanced nursing practice and within the context of contemporary nursing are explored. Prerequisite: Graduate standing in Nursing or consent of Graduate Director.

#### 405 EPIDEMIOLOGY AND AGGREGATE BASED HEALTH PROMOTION

3 sem. hrs.

Theoretical foundations, scientific principles, and research methodologies related to epidemiology are studied, and opportunities for practical applications are provided. Prerequisite: Graduate standing in Nursing or consent of Graduate Director.

#### 407 SCIENTIFIC INQUIRY AND RESEARCH DESIGN IN HEALTH CARE

3 sem. hrs.

The skills of scientific investigation, analysis, evaluation, and interpretation related to the conduct of nursing research are learned and applied. Prerequisite: Graduate standing in Nursing or consent of Graduate Director.

#### 431 DIAGNOSTIC REASONING FOR ADVANCED NURSING PRACTICE

3 sem. hrs.

The diagnostic process with its associated skills of history-taking, target assessments, physical examination techniques, and SOAP documentation are discussed. Prerequisite: NUR 401 or concurrent registration. Graduate standing in Nursing.

#### 433 PHARMACOTHERAPEUTICS FOR ADVANCED PRACTICE NURSING

3 sem. hrs.

Focuses on the management of drug therapy for clients across the life span. Prerequisite: NUR 437.

#### 437 PATHOPHYSIOLOGIC BASES OF HEALTH DEVIATION

3 sem. hrs.

Focuses on the conceptual understanding of pathophysiologic processes and the application of this knowledge to clinical practice. Prerequisite: Graduate standing in Nursing or consent of Graduate Director.

#### 451 FINANCIAL AND RESOURCE MANAGEMENT OF HEALTH SYSTEMS

3 sem. hrs.

Forecasting, resource allocation, strategic positioning, and fiscal responsibilities for quality management within managed and non-managed care environments are emphasized. Prerequisite: NUR 479 or concurrent registration.

#### 471 FAMILY NURSE PRACTITIONER I

5 sem. hrs.

Focuses on the specialized role of the family nurse practitioner in preventive health and primary health care of populations across the life span, emphasizing minor, self-limiting health problems. Includes practicum. Prerequisite: NUR 431 and 437; NUR 433 or concurrent registration.

#### 473 FAMILY NURSE PRACTITIONER II

5 sem. hrs.

Emphasizes the role of the family nurse practitioner in family-centered, preventive health care of the child-rearing family. Includes practicum. Prerequisite: NUR 471.

#### 475 FAMILY NURSE PRACTITIONER III

7 sem. hrs.

Focuses on the role of the nurse practitioner in the management of complex problems of clients across the lifespan. Includes practicum. Prerequisite: NUR 473.

#### 477 FAMILY NURSE PRACTITIONER IV

6 sem. hrs.

Focuses on the many issues involved in being a family nurse practitioner, with the student participating in an individualized clinical capstone preceptorship in one or more selected health care settings. Includes practicum. Prerequisite: NUR 475.

**479 ADVANCED CONCEPTS FOR EXECUTIVE NURSING ADMINISTRATION****3 sem. hrs.**

Roles, trends, and leadership theories are examined, with analysis of health care delivery systems and administrative strategies for managing clinical systems and human resources. Prerequisite: Graduate standing in Nursing or consent of Graduate Director.

**481 EXECUTIVE NURSING ADMINISTRATION OF HEALTH SYSTEMS I****2 sem. hrs.**

Outcome analysis, quality management, issues, and the role of the nurse executive are addressed from an ethical, legal, and regulatory foundation. Includes practicum. Prerequisite: NUR 479.

**483 EXECUTIVE NURSING ADMINISTRATION OF HEALTH SYSTEMS II****4 sem. hrs.**

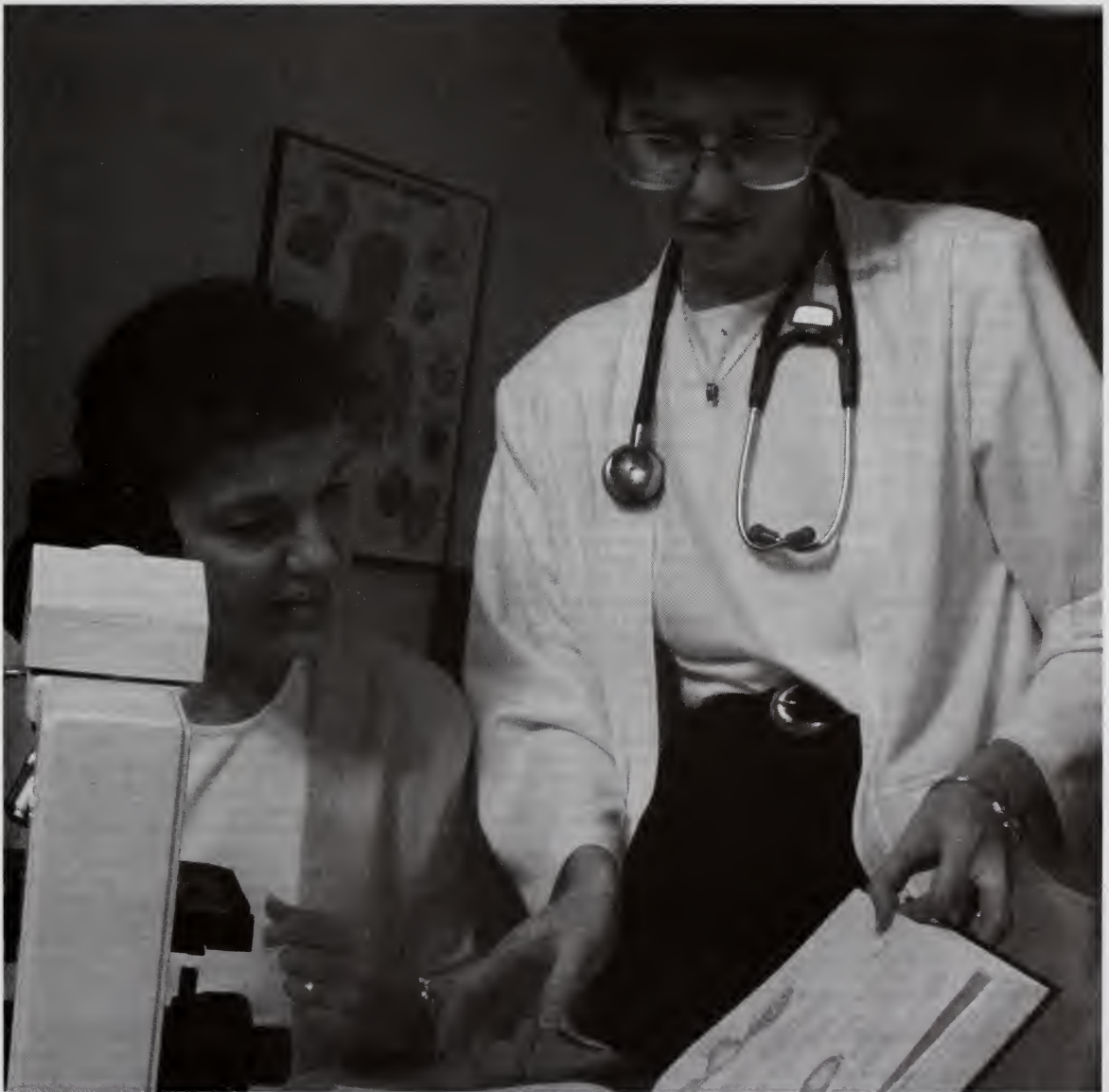
Synthesis of collaborative relationships, interactional teamwork, and executive nurse role responsibilities within a rapidly changing health care system environment are emphasized. Includes practicum. Prerequisite: NUR 481 or concurrent registration.

**490 NURSING SYNTHESIS SEMINAR****2 sem. hrs.**

Concepts previously studied in core, support, and specialty courses are synthesized and applied to advanced practice situations. Prerequisites: NUR 401, 405, and 407; NUR 403 or concurrent registration; approved application to take comprehensive examination; Family Nurse Practitioner Sequence: NUR 477 or concurrent registration; Nursing Systems Sequence: NUR 483 or concurrent registration.

**499 MASTER'S THESIS****1-4 sem. hrs.**

Refer to General Courses.



# MEMBERS OF THE GRADUATE FACULTY

For Fall 2001 as of January 2001

- Donna L. Adair**  
Assistant Professor, Curriculum and Instruction  
Ph.D., Georgia State University
- Lori J. Adams**  
Instructional Faculty, Theatre  
M.F.A., University of Nebraska-Lincoln
- Agbenyega Adedze**  
Assistant Professor, History  
Ph.D., University of California-Los Angeles
- Amelia D. Adkins**  
Assistant Professor, Educational Administration  
& Foundations  
Ph.D., University of North Carolina-Chapel Hill
- Larry Allen Alferink**  
Acting Assistant to the Associate Vice President  
for Undergraduate Studies  
Professor, Psychology  
Ph.D., Utah State University
- David S. Allen**  
Associate Professor, Communication  
Ph.D., University of Minnesota-Twin Cities
- Debbie Ruth Alley**  
Assistant Professor, Theatre  
M.F.A., Illinois State University
- Gregory F. Aloia**  
Professor, Special Education  
Ph.D., University of California-Riverside
- James Joseph Alstrum**  
Associate Professor, Foreign Languages  
Ph.D., Vanderbilt University
- Gary A. Ames**  
Assistant Professor, Accounting  
Ph.D., University of Georgia
- Anthony John Amorose**  
Assistant Professor, Health, Physical Education,  
and Recreation  
Ph.D., University of Virginia
- David L. Anderson**  
Associate Professor, Philosophy  
Ph.D., Harvard University
- Frances E. Anderson**  
Distinguished Professor, Art  
Ed.D., Indiana University-Bloomington
- Roger Clark Anderson**  
Distinguished Professor, Biological Sciences  
Ph.D., University of Wisconsin-Madison
- Maureen E. Angell**  
Assistant Professor, Special Education  
Ph.D., University of Georgia
- Susan Kay Appel**  
Associate Professor, Art  
Ph.D., University of Illinois-Urbana-Champaign
- William Carthon Archer**  
Associate Professor, Art  
Ph.D., University of Virginia
- Joseph Everett Armstrong**  
Professor, Biological Sciences  
Ph.D., Miami University
- Dianna E. Ashby**  
Department Chairperson  
Associate Professor, Educational Administration  
& Foundations  
Ph.D., Southern Illinois University-Carbondale
- Jill Suzanne Attaway**  
Associate Professor, Marketing  
Ph.D., Louisiana State University and A & M
- Albert T. Azinger**  
Assistant Professor, Educational Administration  
& Foundations  
Ph.D., University of Iowa
- G. Thomas Baer**  
Instructional Assistant Professor, Curriculum  
and Instruction  
Ed.D., Northern Illinois University
- Alison Bailey**  
Associate Professor, Philosophy  
Ph.D., University of Cincinnati
- Paul James Baker**  
Distinguished Professor, Educational  
Administration & Foundations  
Ph.D., Duke University
- Jeffrey Bakken**  
Associate Professor, Special Education  
Ph.D., Purdue University
- John R. Baldwin**  
Associate Professor, Communication  
Ph.D., Arizona State University
- John H. Bantham**  
Assistant Professor, Management and  
Quantitative Methods  
Ph.D., Syracuse University
- David Barone**  
Department Chairperson  
Professor, Psychology  
Ph.D., University of California-Santa Barbara
- John E. Baur**  
Associate Professor, Chemistry  
Ph.D., Indiana University-Bloomington
- Barbara Baird Beccue**  
Professor, Applied Computer Science  
Ph.D., University of Illinois-Urbana-Champaign
- Ann Elizabeth Beck**  
Associate Professor, Speech Pathology and  
Audiology  
Ph.D., University of Illinois-Urbana-Champaign
- Frank D. Beck**  
Assistant Professor, Sociology and  
Anthropology  
Ph.D., Pennsylvania State University-Central  
Office
- Augustus Leon Beier**  
Professor, History  
Ph.D., Princeton University
- Lucinda McCray Beier**  
Director, Research  
Assistant Professor, History  
Ph.D., University of Lancaster
- Dana Benelli**  
Assistant Professor, Theatre  
Ph.D., University of Iowa
- Wayne Alan Benenson**  
Associate Professor, Curriculum and Instruction  
Ph.D., University of Idaho
- Raymond Michael Bergner**  
Professor, Psychology  
Ph.D., University of Colorado-Boulder
- Kenneth N. Berk**  
Professor, Mathematics  
Ph.D., University of Minnesota-Twin Cities
- Laura E. Berk**  
Distinguished Professor, Psychology  
Ph.D., University of Chicago
- Alice Berry**  
Professor, Foreign Languages  
Ph.D., Duke University
- Thomas James Bierma**  
Professor, Health Sciences  
Ph.D., University of Illinois-Chicago
- John Francis Binning**  
Associate Professor, Psychology  
Ph.D., University of Akron
- Diane L. Bjorklund**  
Assistant Professor, Sociology and  
Anthropology  
Ph.D., University of California-Davis
- Wendy L. Black**  
Assistant Professor, Curriculum and Instruction  
Ph.D., University of Arizona
- Joseph R. Blaney**  
Assistant Professor, Communication  
Ph.D., University of Missouri-Columbia
- Gleann Block**  
Professor, Music  
Ph.D., University of California-San Diego
- Pamela P. Blum**  
Associate Professor, Art  
M.F.A., Massachusetts College of Art
- Samuel Boateng**  
Assistant Professor, Geography - Geology  
Ph.D., University of Missouri-Rolla
- Stacey Jones Bock**  
Assistant Professor, Special Education  
Ph.D., University of Kansas
- Willard Bohn**  
Professor, Foreign Languages  
Ph.D., University of California-Berkeley
- James Alan Boitis**  
Professor, Music  
M.M., Northwestern University
- Paul William Borg**  
Professor, Music  
Ph.D., Indiana University-Bloomington
- Victoria Anne Borowicz**  
Lecturer, Biological Sciences  
Ph.D., Pennsylvania University
- David Wellington Borst, Jr.**  
Professor, Biological Sciences  
Ph.D., University of California-Los Angeles
- Victor J. Boschini, Jr.**  
President  
Associate Professor, Educational Administration  
& Foundations  
Ed.D., Indiana University-Bloomington
- Richard Allen Boser**  
Associate Professor, Industrial Technology  
Ph.D., Texas A & M University
- Mack L. Bowen**  
Professor, Special Education  
Ph.D., University of Illinois-Urbana-Champaign
- Clarence Alvin Bowman**  
Department Chairperson  
Associate Professor, Speech Pathology and  
Audiology  
Ph.D., University of Illinois-Urbana-Champaign
- Robert Charles Bradley**  
Associate Professor, Political Science  
Ph.D., University of Kentucky
- Lee Ellen Brassieur**  
Associate Professor, English  
D.A., University of Michigan-Ann Arbor
- Paul Ehmann Brauchle**  
Professor, Industrial Technology  
Ph.D., University of Missouri-Columbia
- Joseph A. Braun, Jr.**  
Professor, Curriculum and Instruction  
Ed.D., Northern Illinois University
- Christopher David Breu**  
Assistant Professor, English  
Ph.D., University of California-Santa Cruz
- Robert Lavery Broad**  
Associate Professor, English  
Ph.D., Miami University
- James Thomas Broadbear**  
Assistant Professor, Health Sciences  
Ph.D., Indiana University-Bloomington
- Joel Elliott Brooks**  
Associate Professor, Political Science  
Ph.D., Carleton University
- Irene T. Brosnahan**  
Professor, English  
Ph.D., Georgetown University
- Leger N. Brosnahan**  
Professor, English  
Ph.D., Harvard University
- Daniel P. Browder**  
Associate Professor, Theatre  
M.F.A., Indiana University-Bloomington
- Cynthia L. Brown**  
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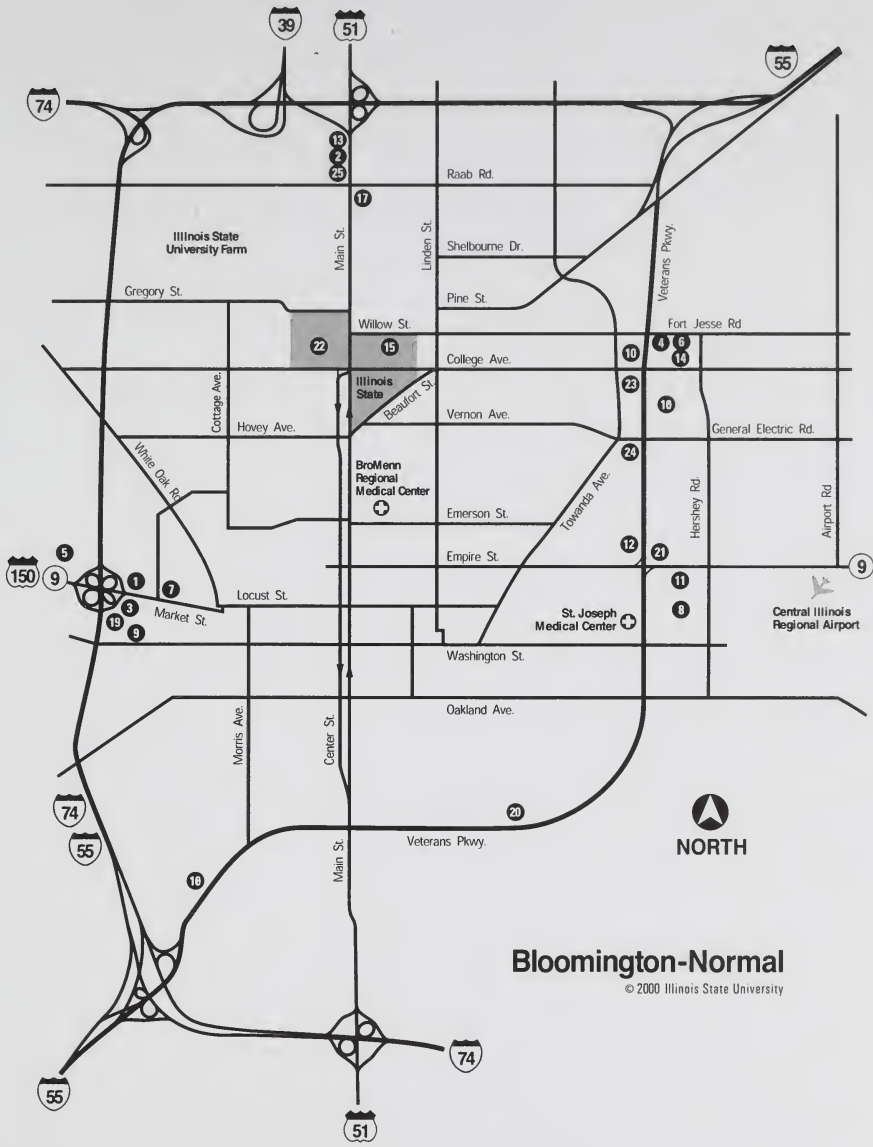
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